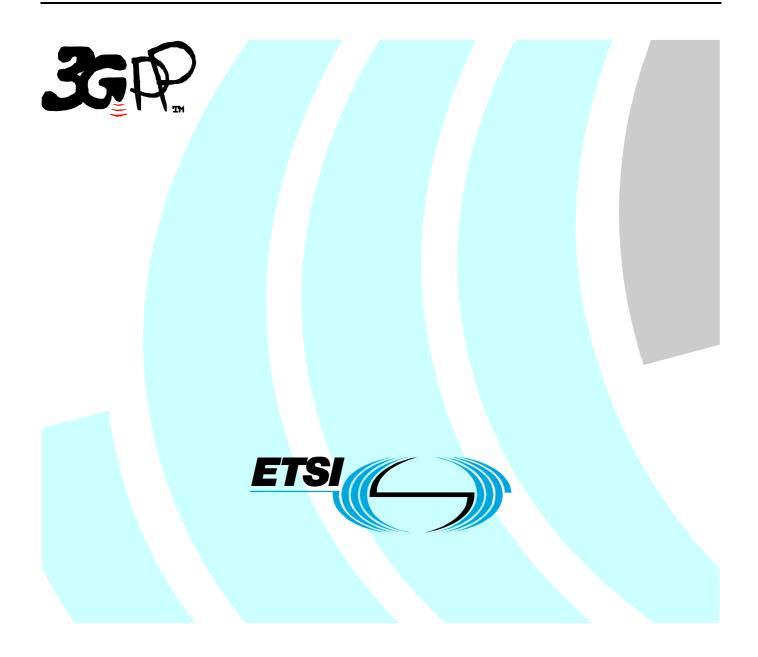
# ETSI TS 125 433 V7.16.0 (2010-05)

**Technical Specification** 

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## Foreword

This Technical Specification has been produced by the 3GPP.

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

Version x.y.z

where:

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

## 1 Scope

The present document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.

## 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 25.401: "UTRAN Overall Description".
- [2] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams".
- [3] CCITT Recommendation X.731 (01/92): "Information Technology Open Systems Interconnection – Systems Management: State Management function".
- [4] 3GPP TS 25.215: "Physical layer Measurements (FDD)".
- [5] 3GPP TS 25.225: "Physical layer Measurements (TDD)".
- [6] 3GPP TS 25.430: "UTRAN Iub General Aspect and Principle".
- [7] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [8] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
- [9] 3GPP TS 25.213: "Spreading and modulation (FDD)".
- [10] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [11] ITU-T Recommendation X.691, (07/2002) "Information technology ASN.1 encoding rules Specification of Packed Encoding Rules (PER)".
- [12] ITU-T Recommendation X.680, (07/2002) "Information Technology Abstract Syntax Notation One (ASN.1):Specification of basic notation".
- [13] ITU-T Recommendation X.681, (07/2002) "Information Technology Abstract Syntax Notation One (ASN.1): Information object specification".
- [14] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
- [15] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [16] 3GPP TS 25.427: "UTRAN Iur/Iub Interface User Plane Protocol for DCH Data Stream".
- [17] 3GPP TS 25.402: "Synchronisation in UTRAN Stage2".
- [18] 3GPP TS 25.331: "RRC Protocol Specification".

- [19] 3GPP TS25.221: "Physical channels and mapping of transport channels onto physical channels[TDD]".
- [20] 3GPP TS 25.223: "Spreading and modulation (TDD)".
- [21] 3GPP TS 25.224: "Physical Layer Procedures (TDD)".
- [22] 3GPP TS 25.133: "Requirements for support of Radio Resource management (FDD)".
- [23] 3GPP TS 25.123: "Requirements for support of Radio Resource management (TDD)".
- [24] 3GPP TS 25.435: "UTRAN Iub Interface: User Plane Protocols for Common Transport Channel Data Streams".
- [25] 3GPP TS 25.302: "Services Provided by the Physical Layer".
- [26] 3GPP TR 25.921: "Guidelines and Principles for Protocol Description and Error Handling".
- [27] ICD-GPS-200: "Navstar GPS Space Segment/Navigation User Interface".
- [28] RTCM-SC104: "RTCM Recommended Standards for Differential GNSS Service (v.2.2)".
- [29] IETF RFC 2460 "Internet Protocol, Version 6 (IPv6) Specification".
- [30] IETF RFC 768 "User Datagram Protocol", (8/1980)
- [31] 3GPP TS 25.434: "UTRAN Iub Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams ".
- [32] 3GPP TS 25.321: "MAC protocol specification".
- [33] 3GPP TS 25.306: "UE Radio Access capabilities".
- [34] 3GPP TS 25.222: "Multiplexing and Channel Coding (TDD)".
- [35] IETF RFC 2474 "Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers".
- [36] IETF RFC 2475 "An Architecture for Differentiated Services".
- [37] 3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".
- [38] 3GPP TS 25.319: "Enhanced Uplink; Overall description; Stage 2".
- [39] Galileo OS Signal in Space ICD (OS SIS ICD), Draft 0, Galileo Joint Undertaking, May 23<sup>rd</sup>, 2006.
- [40] 3GPP TR 25.905: "Feasibility study on improvement of the Multimedia Broadcast / Multicast Service (MBMS) in UTRAN"
- [41] IETF RFC 3376 "Internet Group Management Protocol, Version 3".
- [42] IETF RFC 3810 "Multicast Listener Discovery Version 2 (MLDv2) for IPv6".

## 3 Definitions, Symbols and Abbreviations

## 3.1 Definitions

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

**CRNC Communication Context:** The CRNC Communication Context contains the necessary information for the CRNC for communication with a specific UE. The CRNC Communication Context is identified by the CRNC Communication Context ID.

**Elementary Procedure**: The NBAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between the CRNC and the Node B.

An EP consists of an initiating message and possibly a response message.

Two kinds of EPs are used:

- Class 1: Elementary Procedures with response (success or failure).
- Class 2: Elementary Procedures without response.

For **Class 1** EPs, the types of responses can be as follows:

Successful

- A signalling message explicitly indicates that the elementary procedure has been successfully completed with the receipt of the response.

Unsuccessful

- A signalling message explicitly indicates that the EP failed.

Class 2 EPs are considered always successful.

**Node B Communication Context:** The Node B Communication Context contains the necessary information for the Node B for communication with a specific UE. The Node B Communication Context is created by the Radio Link Setup procedure and deleted by the Radio Link Deletion procedure when deleting the last Radio Link within the Node B Communication Context. The Node B Communication Context is identified by the Node B Communication Context ID.

**Prepared Reconfiguration:** A Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist anymore only after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed. In particular, the Prepared Reconfiguration still exists if the object (e.g. Radio Link) concerned by the Synchronised Radio Link Reconfiguration (e.g. in the case of an HS-DSCH Setup) is removed, but the Node B Communication Context still exists.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

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

A-GPS AICH ALCAP ASN.1 BCCH	Assisted GPS Acquisition Indicator Channel Access Link Control Application Part Abstract Syntax Notation One Broadcast Control Channel
CCPCH CFN	Common Control Physical Channel Connection Frame Number
CM	Compressed Mode
CPICH	Common Pilot Channel
CRNC	Controlling Radio Network Controller
DCH	Dedicated Channel
DGPS	Differential GPS
DL	Downlink
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DSCH	Downlink Shared Channel
E-AGCH	E-DCH Absolute Grant Channel
E-DCH	Enhanced UL DCH

E III GII	
E-HICH	E-DCH HARQ Acknowledgement Indicator Channel
E-PUCH	Enhanced Uplink Physical Channel (TDD only)
E-RNTI	E-DCH RNTI
E-RUCCH	E-DCH Random Access Uplink Control Channel (TDD only)
E-TFCI	E-DCH Transport Format Combination Indicator
E-UCCH	E-DCH Uplink Control Channel (TDD only)
FACH	Forward Access Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
FP	Frame Protocol
FPACH	Fast Physical Access Channel (TDD only)
GANSS	Galileo and Additional Navigation Satellite Systems
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
HSDPA	High Speed Downlink Packet Access
HS-DSCH	High Speed Downlink Shared Channel
HS-PDSCH	High Speed Physical Downlink Shared Channel
HS-SCCH	High Speed Shared Control Channel
HS-SICH	High Speed Shared Information Channel Internet Protocol
IP IPDL	Idle Periods in the DownLink
ISCP	
L1	Interference Signal Code Power
L1 L2	Layer 1 Layer 2
MBMS	Multimedia Broadcast Multicast Service
MBSFN	MBMS over a Single Frequency Network
MFN	Multicast Frame Number
MIB	Master Information Block
MICH	MBMS Notification Indicator Channel
NBAP	Node B Application Part
NI	MBMS Notification Indicator
O&M	Operation and Maintenance
PCCPCH	Primary Common Control Physical Channel
PCH	Paging Channel
PDSCH	Physical Downlink Shared Channel
PICH	Paging Indication Channel
PLCCH	Physical Layer Common Control Channel
PUSCH	Physical Uplink Shared Channel
RACH	Random Access Channel
RL	Radio Link
RLS	Radio Link Set
RNC	Radio Network Controller
RRC	Radio Resource Control
SB	Scheduling Block
SCCPCH	Secondary Common Control Physical Channel
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity
SIB	System Information Block
SRNC	Serving Radio Network Controller
STTD	Space Time Transmit Diversity
TDD	Time Division Duplex
TFC	Transport Format Combination
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TPC	Transmit Power Control
TSTD	Time Switched Transmit Diversity
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System

USCH	Uplink Shared Channel
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network

## 4 General

## 4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the Node B exactly and completely. The CRNC functional behaviour is left unspecified. The Reset procedure is an exception from this principle.

The following specification principles have been applied for the procedure text in subclause 8:

- The procedure text discriminates between:
  - 1) Functionality which "shall" be executed

The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

2) Functionality which "shall, if supported" be executed

The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.

- Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included. For requirements on including *Criticality Diagnostics* IE, see section 10. For examples on how to use the *Criticality Diagnostics* IE, see Annex C.

## 4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism in which all current and future messages, and IEs or groups of related IEs, include Id and criticality fields that are coded in a standard format that will not be changed in the future. These parts can always be decoded regardless of the standard version.

## 4.3 Specification Notations

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

[FDD]	This tagging of a word indicates that the word preceding the tag "[FDD]" applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "[FDD]" and the section following the heading applies only to FDD.
[TDD]	This tagging of a word indicates that the word preceding the tag "[TDD]" applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD.
[3.84Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD]" applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD]" and the section following the heading applies only to 3.84Mcps TDD.

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[1.28Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[1.28Mcps TDD]" applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[1.28Mcps TDD]" and the section following the heading applies only to 1.28Mcps TDD.
[7.68Mcps TDD]	This tagging of a word indicates that the word preceding the tag "[7.68Mcps TDD]" applies only to 7.68Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[7.68Mcps TDD]" and the section following the heading applies only to 7.68Mcps TDD.
[FDD]	This tagging indicates that the enclosed text following the "[FDD - " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.
[TDD]	This tagging indicates that the enclosed text following the "[TDD - " applies only to TDD, including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs.
[3.84Mcps TDD]	This tagging indicates that the enclosed text following the "[3.84Mcps TDD - " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to 3.84Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs.
[1.28Mcps TDD]	This tagging indicates that the enclosed text following the "[1.28Mcps TDD - " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs.
[7.68Mcps TDD]	This tagging indicates that the enclosed text following the "[7.68Mcps TDD - " applies only to 7.68Mcps TDD. Multiple sequential paragraphs applying only to 7.68Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 7.68Mcps TDD specific paragraphs.
Procedure	When referring to an elementary procedure in the specification the Procedure Name is written with the first letters in each word in upper case characters followed by the word "procedure", e.g. Radio Link Setup procedure.
Message	When referring to a message in the specification the MESSAGE NAME is written with all letters in upper case characters followed by the word "message", e.g. RADIO LINK SETUP REQUEST message.
IE	When referring to an information element (IE) in the specification the <i>Information Element Name</i> is written with the first letters in each word in upper case characters and all letters in Italic font followed by the abbreviation "IE", e.g. <i>Transport Format Set</i> IE.
Value of an IE	When referring to the value of an information element (IE) in the specification the "Value" is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract Syntax Error (Reject)".

## 5 NBAP Services

## 5.1 Parallel Transactions

Unless explicitly indicated in the procedure description, at any instance in time one protocol peer shall have a maximum of one ongoing dedicated NBAP procedure related to a certain Node B Communication Context.

## 6 Services Expected from Signalling Transport

NBAP requires an assured in-sequence delivery service from the signalling bearer, and notification if the assured insequence delivery service is no longer available.

## 7 Functions of NBAP

The NBAP protocol provides the following functions:

- Cell Configuration Management. This function gives the CRNC the possibility to manage the cell configuration information in a Node B.
- Common Transport Channel Management. This function gives the CRNC the possibility to manage the configuration of Common Transport Channels in a Node B.
- System Information Management. This function gives the CRNC the ability to manage the scheduling of System Information to be broadcast in a cell.
- Resource Event Management. This function gives the Node B the ability to inform the CRNC about the status of Node B resources.
- Configuration Alignment. This function gives the CRNC and the Node B the possibility to verify and enforce that both nodes have the same information on the configuration of the radio resources.
- Measurements on Common Resources. This function allows the CRNC to initiate measurements on common resources in the Node B. The function also allows the Node B to report the result of the measurements.
- Radio Link Management. This function allows the CRNC to manage radio links using dedicated resources in a Node B.
- Radio Link Supervision. This function allows the CRNC to report failures and restorations of a Radio Link.
- Compressed Mode Control [FDD]. This function allows the CRNC to control the usage of compressed mode in a Node B.
- Measurements on Dedicated Resources. This function allows the CRNC to initiate measurements on dedicated resources in the Node B. The function also allows the Node B to report the result of the measurements.
- DL Power Drifting Correction [FDD]. This function allows the CRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links.
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- Physical Shared Channel Management. This function allows the CRNC to manage physical resources in the Node B belonging to High Speed Downlink Shared Channels and High Speed Shared Control Channels [TDD and High Speed Shared Indication Channels and Shared Channels (USCH/DSCH)].
- DL Power Timeslot Correction [TDD]. This function enables the Node B to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Cell Synchronisation [1.28 Mcps TDD and 3.84 Mcps TDD]. This function allows the synchronisation of cells or Node Bs via the air interface.
- Information Exchange. This function allows the CRNC to initiate information provision from the Node B. The function also allows the Node B to report the requested information.
- Bearer Rearrangement. This function allows the Node B to indicate the need for bearer re-arrangement for a Node B Communication Context. The function also allows the CRNC to re-arrange bearers for a Node B Communication Context.
- MBMS Notification. This function allows the CRNC to send MBMS Notification indicators to the Node B to be broadcasted in a cell.

The mapping between the above functions and NBAP elementary procedures is shown in the table below.

Function	Elementary Procedure(s)
Cell Configuration Management	a) Cell Setup
	b) Cell Reconfiguration
	c) Cell Deletion
Common Transport Channel Management	a) Common Transport Channel Setup
	b) Common Transport Channel Reconfiguration
	c) Common Transport Channel Deletion
System Information Management	System Information Update
Resource Event Management	a) Block Resource
5	b) Unblock Resource
	c) Resource Status Indication
Configuration Alignment	a) Audit Required
5 5	b) Audit
	c) Reset
Measurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
	d) Common Measurement Failure
Radio Link Management.	a) Radio Link Setup
-	b) Radio Link Addition
	c) Radio Link Deletion
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration Preparation
	f) Synchronised Radio Link Reconfiguration Commit
	g) Synchronised Radio Link Reconfiguration Cancellation
	h) Radio Link Pre-emption
	i) Radio Link Activation
	j) Radio Link Parameter Update
Radio Link Supervision.	a) Radio Link Failure
	b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup
	b) Radio Link Addition
	c) Compressed Mode Command
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration Preparation
	f) Synchronised Radio Link Reconfiguration Commit
	g) Synchronised Radio Link Reconfiguration Cancellation
Measurements on Dedicated Resources	a) Dedicated Measurement Initiation
	b) Dedicated Measurement Reporting
	c) Dedicated Measurement Termination
	d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
Reporting of General Error Situations	Error Indication
Physical Shared Channel Management	Physical Shared Channel Reconfiguration
DL Power Timeslot Correction [TDD]	Downlink Power Timeslot Control
Cell Synchronisation [1.28 Mcps TDD and 3.84 Mcps	a) Cell Synchronisation Initiation
TDD]	b) Cell Synchronisation Reconfiguration
	c) Cell Synchronisation Reporting
	d) Cell Synchronisation Termination
	e) Cell Synchronisation Failure
	f) Cell Synchronisation Adjustment
Information Exchange	a) Information Exchange Initiation
	b) Information Reporting
	c) Information Exchange Termination
	d) Information Exchange Failure
Bearer Re-arrangement	a) Bearer Re-arrangement Indication
-	b) Unsynchronised Radio Link Reconfiguration
	c) Synchronised Radio Link Reconfiguration Preparation
	d) Synchronised Radio Link Reconfiguration Commit
	e) Synchronised Radio Link Reconfiguration Cancellation
MBMS Notification	a) MBMS Notification Update

### Table 1: Mapping between functions and NBAP elementary procedures

## 8 NBAP Procedures

## 8.1 Elementary Procedures

NBAP procedures are divided into common procedures and dedicated procedures.

- NBAP common procedures are procedures that request initiation of a Node B Communication Context for a specific UE in Node B or are not related to a specific UE. NBAP common procedures also incorporate logical O&M [1] procedures.
- NBAP dedicated procedures are procedures that are related to a specific Node B Communication Context in Node B. This Node B Communication Context is identified by a Node B Communication Context identity.

The two types of procedures may be carried on separate signalling links.

In the following tables, all EPs are divided into Class 1 and Class 2 EPs:

Elementary	Message	Successful Outcome	Unsuccessful Outcome
Procedure	message	Response message	Response message
Cell Setup	CELL SETUP REQUEST	CELL SETUP RESPONSE	CELL SETUP FAILURE
Cell	CELL RECONFIGURATION	CELL RECONFIGURATION	CELL RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Cell Deletion	CELL DELETION REQUEST	CELL DELETION RESPONSE	
Common	COMMON TRANSPORT	COMMON TRANSPORT	COMMON TRANSPORT
Transport	CHANNEL SETUP	CHANNEL SETUP RESPONSE	CHANNEL SETUP FAILURE
Channel Setup	REQUEST		
Common	COMMON TRANSPORT	COMMON TRANSPORT	COMMON TRANSPORT
Transport	CHANNEL	CHANNEL RECONFIGURATION	CHANNEL
Channel	RECONFIGURATION	RESPONSE	RECONFIGURATION
Reconfiguration	REQUEST		FAILURE
Common	COMMON TRANSPORT	COMMON TRANSPORT	
Transport	CHANNEL DELETION	CHANNEL DELETION	
Channel Deletion	REQUEST	RESPONSE	
Physical Shared	PHYSICAL SHARED	PHYSICAL SHARED CHANNEL	PHYSICAL SHARED
Channel	CHANNEL	RECONFIGURATION	CHANNEL
Reconfiguration	RECONFIGURATION	RESPONSE	RECONFIGURATION
A	REQUEST		
Audit Block Resource	AUDIT REQUEST	AUDIT RESPONSE	
BIOCK Resource	BLOCK RESOURCE REQUEST	BLOCK RESOURCE	BLOCK RESOURCE
Dedie Link Cotur	RADIO LINK SETUP		FAILURE RADIO LINK SETUP FAILURE
Radio Link Setup		RADIO LINK SETUP	RADIO LINK SETUP FAILURE
Sustam	REQUEST SYSTEM INFORMATION	RESPONSE SYSTEM INFORMATION	SYSTEM INFORMATION
System Information	UPDATE REQUEST	UPDATE RESPONSE	UPDATE FAILURE
Update	OFDATE REQUEST	OFDATE RESPONSE	OFDATE FAILORE
Common	COMMON MEASUREMENT	COMMON MEASUREMENT	COMMON MEASUREMENT
Measurement	INITIATION REQUEST	INITIATION RESPONSE	INITIATION FAILURE
Initiation			
Radio Link	RADIO LINK ADDITION	RADIO LINK ADDITION	RADIO LINK ADDITION
Addition	REQUEST	RESPONSE	FAILURE
Radio Link	RADIO LINK DELETION	RADIO LINK DELETION	
Deletion	REQUEST	RESPONSE	
Synchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION READY	RECONFIGURATION
Reconfiguration	PREPARE		FAILURE
Preparation			
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Dedicated	DEDICATED	DEDICATED MEASUREMENT	DEDICATED
Measurement		INITIATION RESPONSE	MEASUREMENT INITIATION
Initiation	INITIATION REQUEST		FAILURE
Reset	RESET REQUEST	RESET RESPONSE	
Cell	CELL SYNCHRONISATION	CELL SYNCHRONISATION	CELL SYNCHRONISATION
Synchronisation	INITIATION REQUEST	INITIATION RESPONSE	INITIATION FAILURE
Initiation [TDD]			
Cell	CELL SYNCHRONISATION	CELL SYNCHRONISATION	CELL SYNCHRONISATION
Synchronisation	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
[TDD]			
Cell	CELL SYNCHRONISATION	CELL SYNCHRONISATION	CELL SYNCHRONISATION
Synchronisation	ADJUSTMENT REQUEST	ADJUSTMENT RESPONSE	ADJUSTMENT FAILURE
Adjustment [TDD]			
Information	INFORMATION EXCHANGE		
Exchange Initiation	INITIATION REQUEST	INITIATION RESPONSE	INITIATION FAILURE
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### Table 2: Class 1

Elementary Procedure	Message	
Resource Status Indication	RESOURCE STATUS INDICATION	
Audit Required	AUDIT REQUIRED INDICATION	
Common Measurement Reporting	COMMON MEASUREMENT REPORT	
Common Measurement Termination	COMMON MEASUREMENT TERMINATION	
	REQUEST	
Common Measurement Failure	COMMON MEASUREMENT FAILURE INDICATION	
Synchronised Radio Link	RADIO LINK RECONFIGURATION COMMIT	
Reconfiguration Commit		
Synchronised Radio Link	RADIO LINK RECONFIGURATION CANCEL	
Reconfiguration Cancellation		
Radio Link Failure	RADIO LINK FAILURE INDICATION	
Radio Link Restoration	RADIO LINK RESTORE INDICATION	
Dedicated Measurement Reporting	DEDICATED MEASUREMENT REPORT	
Dedicated Measurement Termination	DEDICATED MEASUREMENT TERMINATION	
	REQUEST	
Dedicated Measurement Failure	DEDICATED MEASUREMENT FAILURE	
	INDICATION	
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST	
Compressed Mode Command [FDD]	COMPRESSED MODE COMMAND	
Unblock Resource	UNBLOCK RESOURCE INDICATION	
Error Indication	ERROR INDICATION	
Downlink Power Timeslot Control [TDD]	DL POWER TIMESLOT CONTROL REQUEST	
Radio Link Pre-emption	RADIO LINK PREEMPTION REQUIRED INDICATION	
Cell Synchronisation Reporting [TDD]	CELL SYNCHRONISATION REPORT	
Cell Synchronisation Termination [TDD]	CELL SYNCHRONISATION TERMINATION	
	REQUEST	
Cell Synchronisation Failure [TDD]	CELL SYNCHRONISATION FAILURE INDICATION	
Information Reporting	INFORMATION REPORT	
Information Exchange Termination	INFORMATION EXCHANGE TERMINATION	
	REQUEST	
Information Exchange Failure	INFORMATION EXCHANGE FAILURE INDICATION	
Bearer Re-arrangement	BEARER REARRANGEMENT INDICATION	
Radio Link Activation	RADIO LINK ACTIVATION COMMAND	
Radio Link Parameter Update	RADIO LINK PARAMETER UPDATE INDICATION	
MBMS Notification Update	MBMS NOTIFICATION UPDATE COMMAND	

### Table 3: Class 2

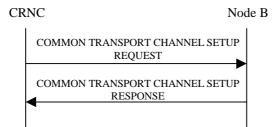
## 8.2 NBAP Common Procedures

### 8.2.1 Common Transport Channel Setup

### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, AICH [FDD], FACH, PCH, MICH, RACH, E-RUCCH [3.84 Mcps and 7.68 Mcps TDD], PLCCH [1.28Mcps TDD] and FPACH [1.28Mcps TDD].

### 8.2.1.2 Successful Operation



### Figure 1: Common Transport Channel Setup procedure, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD one Secondary CCPCH, and FACHs, PCH, PICH and MICH related to that Secondary CCPCH], or
- [TDD one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one [1.28Mcps TDD or more] PRACH, one RACH and one AICH [FDD] and one FPACH[1.28Mcps TDD] related to that PRACH, or
- one PLCCH [1.28Mcps TDD], or
- one E-RUCCH [3.84Mcps TDD and 7.68Mcps TDD].

### Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[FDD - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FDD S-CCPCH Frame Offset* IE within the *Secondary CCPCH* IE, the Node B shall apply the indicated frame offset for the concerned Secondary CCPCH.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[3.84Mcps TDD and 7.68Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *TFCI Presence* IE, the Node B shall apply the indicated TFCI presence in the timeslot of the S-CCPCH. If all the S-CCPCHs defined in a timeslot do not have a *TFCI Presence* IE included, the Node B shall apply a TFCI field in the lowest numbered S-CCPCH of the timeslot.]

[TDD - FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FACH Parameters* IE, the Node B shall configure and activate the indicated FACH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PCH Parameters* IE, the Node B shall configure and activate the concerned PCH and the associated PICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - If the *PCH Power* IE is included in the *PCH Parameters* IE of the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall use this value as the power at which the PCH shall be transmitted.]

[TDD - If the *TSTD Indicator* IE for the S-CCPCH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall activate TSTD diversity for all S-CCPCHs defined in the message

that are not beacon channels [19,21]. If the *TSTD Indicator* IE is not included or is set to "not active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall not activate TSTD diversity for the S-CCPCHs defined in the message.]

[1.28Mcps TDD - If the *TSTD Indicator* IE for the PICH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall activate TSTD diversity for the PICH if it is not a beacon channel [19,21]. If the *TSTD Indicator* IE is set to "not active" or the TSTD Indicator IE is not included for the PICH in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall not activate TSTD diversity for the PICH.]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE, the Node B shall configure and activate the concerned MICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Modulation Power Offset* IE, in the *Secondary CCPCH* IE, the Node B shall apply the indicated modulation, and power offset in case of 16QAM, for the concerned Secondary CCPCH.]

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Extended Secondary CCPCH Slot Format* IE, in the *Secondary CCPCH* IE, the Node B shall ignore the *Secondary CCPCH Slot Format* IE and apply the slot format indicated in the *Extended Secondary CCPCH Slot Format* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Modulation* IE, the Node B shall apply the indicated modulation for the CCTrCH.]

[3.84Mcps TDD and 7.68Mcps TDD - If a timeslot has been configured for MBSFN operation then the contents of the [3.84Mcps TDD - *Midamble Shift and Burst Type* IE] [7.68Mcps TDD - *Midamble Shift and Burst Type* 7.68Mcps IE] shall be ignored and burst type 4, Kcell=1 shall be used [19].]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the *MBSFN Special Time Slot LCR* IE indicates from CRNC to the Node B whether the channel is deployed on the MBSFN Special Time Slot for MBSFN only mode [19].]

[1.28Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *UARFCN* IE in the *Secondary CCPCHs* IE, this Secondary CCPCH providing MBMS service in non-MBSFN only mode shall be setup on the secondary frequency indicated by the *UARFCN* IE.]

### PRACH:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PRACH* IE, the Node B shall configure and activate the indicated PRACH and the associated RACH [FDD - and the associated AICH] according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - The resource indicated by the *PRACH* IE is used for RACH random access as well as E-DCH random access. The way to differentiate the two access type on PRACH physical resource shall be operated according to [21].]

[1.28Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *UARFCN* IE in the *PRACH* IE, the PRACH shall be set up on the secondary frequency indicated by the *UARFCN* IE.]

### [1.28Mcps TDD - FPACH]:

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FPACH* IE, the Node B shall configure and activate the indicated FPACH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

Where more than one FPACH is defined, the FPACH that Node B should use is defined by the UpPCH signature (SYNC\_UL) code that the UE used. The FPACH number = N mod M where N denotes the signature number (0..7) and M denotes the number of FPACHs that are defined in a cell. The FPACH number is in ascending order by *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the *FPACH* IE contains the *UARFCN* IE, the FPACH shall be set up on the secondary frequency indicated by the *UARFCN* IE.

When the FPACH is set up on the secondary frequency of a multi-frequency cell, if the *PRACH LCR* IE contains the *UARFCN* IE, the *RACH* IE included in the *PRACH LCR* IE shall be ignored; otherwise all IEs included in the *PRACH LCR* IE shall be ignored.

### [1.28Mcps TDD - PLCCH]:

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PLCCH* IE, the Node B shall configure and activate the indicated PLCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message when one or more of the PLCCH sequence numbers have been assigned to one or more radio links.]

### [3.84Mcps TDD and 7.68Mcps TDD - E-RUCCH]:

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the [3.84Mcps TDD - *E*-*RUCCH* IE] [7.68Mcps TDD - *E*-*RUCCH* 7.68Mcps IE], the Node B shall configure and activate the indicated E-RUCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

### **RACH, FACH and PCH:**

If the *TNL QoS* IE is included for a RACH, FACH or PCH and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH, FACH or PCH.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Broadcast Reference* IE in the *FACH Parameters* IE, and one or more established FACH common transport channels with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exist (all of them in other distinct cells within the Node B), the Node B may include the *Broadcast Common Transport Bearer Indication* IE in the *Common Transport Channel Information Response* IE in the COMMON TRANSPORT CHANNEL SETUP RESPONSE message to inform the CRNC that the existing transport bearer, identified by *Broadcast Common Transport Bearer Indication* IE, shall be used instead of establishing a new transport bearer.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Broadcast Reference* IE in the *FACH Parameters* IE and no common transport channel with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exists in another cell within the Node B, or if the Node B decides to establish a new transport bearer, the Node B may store the value of *Broadcast Reference* IE.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *IP Multicast Indication* IE, and if supported, the Node B may join the indicated IP multicast group if it has not done so yet ([41] in case of IPv4, [42] in case of IPv6). If the Node B does join the IP multicast group, or is already joined to the IP multicast group as a result of a previous procedure, the Node B shall include the *IP Multicast Data Bearer Indication* IE in the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message to inform the CRNC that the existing IP multicast transport bearer, identified by *IP Multicast Indication* IE in the corresponding COMMON TRANSPORT CHANNEL SETUP REQUEST message, shall be used instead of using a IP unicast transport bearer. If the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message does not contain the *IP Multicast Data Bearer Indication* IE, the CRNC shall send FACH data frames on the IP unicast transport bearer. No matter whether the Node B has joined the indicated IP multicast group, a new transport bearer shall be established using the *Transport Layer Address* IE and *Binding ID* IE and FACH specific control frames, e.g. TIMING ADJUSTMENT, shall be sent on the established Iub transport bearer.

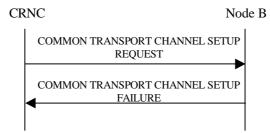
### General:

After successfully configuring the requested common transport channels and the common physical channels, the Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the *Common Transport Channel ID* IE, the *Binding ID* IE (if no *Broadcast Common Transport Bearer Indication* IE is included) and the *Transport Layer Address* IE (if no *Broadcast Common Transport Bearer Indication* IE is included) for the configured common transport channels.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes the *Transport Layer Address* and *Binding ID* IEs, the Node B may use the transport layer adress and the binding identifier received from the CRNC when establishing a transport bearer for the indicated common transport channels.

After a successful procedure and once the transport bearers are established, the configured common transport channels and the common physical channels shall adopt the state Enabled [6] in the Node B and the common physical channels exist on the Uu interface.

# 8.2.1.3 Unsuccessful Operation



#### Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Cell not available
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported
- MICH not supported

#### **Transport Layer Cause:**

- Transport Resources Unavailable

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, and that IE contains [FDD - neither the *FACH Parameters* IE nor the *PCH Parameters* IE] [TDD - neither the *FACH* IE nor the *PCH* IE], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

[TDD - If the *FACH CCTrCH Id* IE or the *PCH CCTrCH Id* IE does not equal the *SCCPCH CCTrCH Id* IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[TDD - If the *TDD Physical Channel Offset* IE, the *Repetition Period* IE, and the *Repetition Length* IE are not equal for each SCCPCH configured within the CCTrCH or the *TFCI Presence* IE are not equal for any two SCCPCHs configured in the same timeslot, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the *Common Transport Channel ID* IE, and the *Transport Format Set* IE are not equal for each RACH configured in PRACH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the UARFCN IE in the PRACH LCR IE is not equal to the UARFCN IE in any other PRACH LCR IE configured on one RACH, or if the UARFCN IE in PRACH LCR IE is not equal to the UARFCN IE in FPACH IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

If the state is already Enabled or Disabled [6] for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message which is received, the Node B shall reject the configuration of all channels with the *Cause* IE set to "Message not compatible with receiver state".

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE but not the *FACH Parameters* IE [FDD - for one S-CCPCH], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a *Broadcast Reference* IE value already associated to an existing FACH in the same cell, or if the message contains the same value for the *Broadcast Reference* IEs included in the *FACH Parameters* IEs for several FACHs in the list of FACHs defined on the Secondary CCPCH, the Node B shall reject the procedure, using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

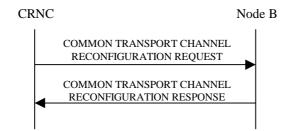
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains both the *Broadcast Reference* IE and the *IP Multicast Indication* IE, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

# 8.2.2 Common Transport Channel Reconfiguration

# 8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

# 8.2.2.2 Successful Operation



#### Figure 3: Common Transport Channel Reconfiguration, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - FACHs, one PCH, one PICH and/or one MICH related to one Secondary CCPCH], or

- [TDD one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one RACH and/or one AICH[FDD] and/or one FPACH[1.28Mcps TDD] related to one PRACH,or
- [1.28Mcps TDD One UpPCH].

### SCCPCH:

[TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *SCCPCH Power* IE, the Node B shall reconfigure the maximum power that the indicated S-CCPCH shall use.]

### FACH:

If the FACH Parameters IE is present, the Node B shall reconfigure the indicated FACH(s).

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window startpoint requested in one cell shall be applied to all these FACH channels.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window endpoint requested in one cell shall be applied to all these FACH channels.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related FACH.

#### PCH:

If the PCH Parameters IE is present, the Node B shall reconfigure the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related PCH.

#### PICH:

If the PICH Parameters IE is present, the Node B shall reconfigure the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

# MICH:

If the MICH Parameters IE is present, the Node B shall reconfigure the MICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *MICH Power* IE, the Node B shall reconfigure the power that the MICH shall use.

### [FDD - PRACH]:

If the PRACH Parameters IE is present, the Node B shall reconfigure the indicated PRACH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Preamble Signatures* IE, the Node B shall reconfigure the preamble signatures that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Allowed Slot Format Information* IE, the Node B shall reconfigure the slot formats that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *RACH Sub Channel Numbers* IE, the Node B shall reconfigure the sub channel numbers that the indicated PRACH shall use.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH.

#### [FDD - AICH]:

If the AICH Parameters IE is present, the Node B shall reconfigure the indicated AICH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the indicated AICH shall use.

#### [1.28Mcps TDD - FPACH]:

If the FPACH Parameters IE is included, the Node B shall reconfigure the indicated FPACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FPACH Power* IE, the Node B shall reconfigure the power that the FPACH shall use.

### [1.28Mcps TDD - UpPCH]:

If the UpPCH Parameters IE is included, the Node B shall reconfigure the position of the UpPCH.

For a multi-frequency cell:

- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is primary frequency, the Node B shall reconfigure the position of the UpPCH on the primary frequency.
- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is a secondary frequency, the Node B shall configure or reconfigure the position of the UpPCH on the secondary frequency.
- If the *UpPCH Position LCR* IE is not included, the Node B may delete the UpPCH on the secondary frequency indicated by the *UARFCN* IE.

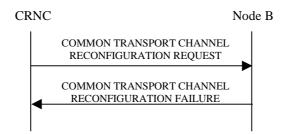
### [1.28Mcps TDD - PLCCH]:

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max PLCCH Power* IE, the Node B shall reconfigure the power that the PLCCH shall use.

#### General:

After a successful procedure, the channels will have adopted the new configuration in the Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The Node B shall store the value of *Configuration Generation ID* IE and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

# 8.2.2.3 Unsuccessful Operation



#### Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Cell not available
- Power level not supported
- Node B Resources unavailable

#### **Transport Layer Cause:**

- Transport Resources Unavailable

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.2.4 Abnormal Conditions

[1.28Mcps TDD - For a single frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a single frequency cell, if the *UARFCN* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, and the frequency indicated by the *UARFCN* IE is primary frequency, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, and the frequency indicated by the *UARFCN* IE is secondary frequency on which the UpPCH is not configured, the Node B

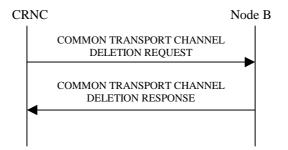
shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

# 8.2.3 Common Transport Channel Deletion

# 8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels.

# 8.2.3.2 Successful Operation



# Figure 5: Common Transport Channel Deletion procedure, Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

#### Secondary CCPCH:

If the *Common Physical Channel ID* IE or *Common Physical Channel ID* 7.68Mcps IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a Secondary CCPCH, the Node B shall delete the indicated channel and the FACHs and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted. If an S-CCPCH is deleted, the MICH associated with that S-CCPCH shall also be deleted.

If the *Common Physical Channel ID* IE or *Common Physical Channel ID* 7.68*Mcps* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel that is sharing a common transport bearer with other one or several common transport channels, the Node B shall delete the indicated channel but keep the common transport bearer which is shared by the remaining common transport channel(s).

If the *Common Physical Channel ID* IE or *Common Physical Channel ID* 7.68*Mcps* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel which is using an IP multicast transport bearer, the Node B shall leave the IP multicast group if this channel is the last one in the group ([41] in case of IPv4, [42] in case of IPv6).

# PRACH:

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PRACH, the Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD - The AICH associated with the RACH shall also be deleted.]

# [1.28Mcps TDD PLCCH:

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PLCCH, the Node B shall delete the indicated channel.]

### General:

[TDD - If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in the Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing ref. [6]. The Node B shall store the

received value of the *Configuration Generation ID* IE and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

# 8.2.3.3 Unsuccessful Operation

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# 8.2.3.4 Abnormal Conditions

If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

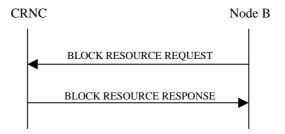
# 8.2.4 Block Resource

# 8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources.

The logical resource that can be blocked is a cell.

# 8.2.4.2 Successful Operation



#### Figure 6: Block Resource procedure, Successful Operation

The procedure is initiated with a BLOCK RESOURCE REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

Upon reception of the BLOCK RESOURCE REQUEST message, the CRNC shall prohibit the use of the indicated logical resources according to the *Blocking Priority Indicator* IE.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "High Priority", the CRNC shall prohibit the use of the logical resources immediately.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "Normal Priority", the CRNC shall prohibit the use of the logical resources if the resources are idle or immediately upon expiry of the shutdown timer specified by the *Shutdown Timer* IE in the BLOCK RESOURCE REQUEST message. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "Low Priority", the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the resources are successfully blocked, the CRNC shall respond with a BLOCK RESOURCE RESPONSE message. Upon reception of the BLOCK RESOURCE RESPONSE message, the Node B may disable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH. The other logical resources in the cell shall be considered as blocked.

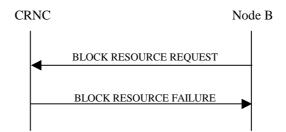
Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.

#### Interactions with the Unblock Resource procedure:

If the UNBLOCK RESOURCE INDICATION message is received by the CRNC while a Block Resource procedure on the same logical resources is in progress, the CRNC shall cancel the Block Resource procedure and proceed with the Unblock Resource procedure.

If the BLOCK RESOURCE RESPONSE message or the BLOCK RESOURCE FAILURE message is received by the Node B after the Node B has initiated an Unblock Resource procedure on the same logical resources as the ongoing Block Resource procedure, the Node B shall ignore the response to the Block Resource procedure.

# 8.2.4.3 Unsuccessful Operation



#### Figure 7: Block Resource procedure, Unsuccessful Operation

The CRNC may reject the request to block the logical resources, in which case the logical resources will remain unaffected and the CRNC shall respond to the Node B with the BLOCK RESOURCE FAILURE message. Upon reception of the BLOCK RESOURCE FAILURE message, the Node B shall leave the logical resources in the state that they were in prior to the start of the Block Resource procedure.

Typical cause values are as follows:

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

#### **Radio Network Layer Cause:**

- Priority transport channel established

# 8.2.4.4 Abnormal Conditions

8.2.5 Unblock Resource

# 8.2.5.1 General

The Node B initiates this procedure to indicate to the CRNC that logical resources are now unblocked.

The logical resource that can be unblocked is a cell.

# 8.2.5.2 Successful Operation



### Figure 8: Unblock Resource procedure, Successful Operation

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC using the Node B Control Port. The Node B shall enable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH(s) (if present)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH that had been disabled due to the preceding Block Resource procedure before sending the UNBLOCK RESOURCE INDICATION message. Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

All physical channels and transport channels associated to the cell that is unblocked are also unblocked.

# 8.2.5.3 Abnormal Conditions

8.2.6 Audit Required

# 8.2.6.1 General

The Node B initiates this procedure to request the CRNC to perform an audit of the logical resources at the Node B. This procedure is used to indicate a possible misalignment of state or configuration information.

# 8.2.6.2 Successful Operation



### Figure 9: Audit Required procedure, Successful Operation

The procedure is initiated with an AUDIT REQUIRED INDICATION message sent from the Node B to the CRNC using the Node B Control Port.

If the Node B cannot ensure alignment of the state or configuration information, it should initiate the Audit Required procedure.

Upon receipt of the AUDIT REQUIRED INDICATION message, the CRNC should initiate the Audit procedure.

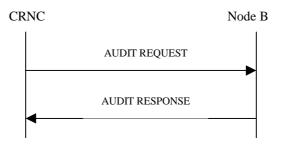
# 8.2.6.3 Abnormal Conditions

# 8.2.7 Audit

# 8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. A complete audit of a Node B is performed by one or more Audit procedures, together performing an audit sequence. The audit may cause the CRNC to re-synchronise the Node B to the status of logical resources known by the CRNC, that the Node B can support.

# 8.2.7.2 Successful Operation



#### Figure 10: Audit procedure, Successful Operation

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

If the *Start Of Audit Sequence Indicator* IE in the AUDIT REQUEST message is set to "start of audit sequence" a new audit sequence is started, any ongoing audit sequence shall be aborted and the Node B shall provide (part of the) audit information. If the *Start Of Audit Sequence Indicator* IE is set to "not start of audit sequence", the Node B shall provide (part of) the remaining audit information not already provided during this audit sequence.

If the information provided in the AUDIT RESPONSE message completes the audit sequence, the Node B shall set the *End Of Audit Sequence Indicator* IE in the AUDIT RESPONSE message to "End of Audit Sequence". If not all audit information has been provided yet as part of the ongoing audit sequence, the Node B shall set the *End Of Audit Sequence Indicator* IE in the AUDIT RESPONSE message to "Not End of Audit Sequence".

### **Information Provided In One Audit Sequence:**

The Node B shall include one Local Cell Information IE for each local cell present in the Node B. The Node B shall include the Maximum DL Power Capability IE, the Minimum Spreading Factor IE and the Minimum DL Power Capability IE when any of those values are known by the Node B.The Node B shall include the HSDPA Capability IE set to "HSDPA Capable" and may include HS-DSCH MAC-d PDU Size Capability IE for every HSDPA-capable Local Cell. The Node B shall include the E-DCH Capability IE set to "E-DCH Capable" for every E-DCH-capable Local Cell. The Node B shall include the MBMS Capability IE set to "MBMS Capable" for every MBMS-capable Local Cell. [FDD - The Node B shall include the F-DPCH Capability IE set to "F-DPCH Capable" for every F-DPCH-capable Local Cell.] [FDD - The Node B shall include the Continuous Packet Connectivity DTX-DRX Capability IE set to "Continuous Packet Connectivity DTX-DRX Capable" when Continuous Packet Connectivity DTX-DRX is supported for every Local Cell that is both HSDPA-capable and E-DCH-capable.] [FDD - The Node B shall include the Continuous Packet Connectivity HS-SCCH less Capability IE set to "Continuous Packet Connectivity HS-SCCH less Capable" when Continuous Packet Connectivity HS-SCCH less is supported for every Local Cell that is both HSDPAcapable and E-DCH-capable.] [FDD - The Node B shall include the MIMO Capability IE set to "MIMO Capable" for every MIMO-capable Local Cell.] [FDD - The Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for every SixtyfourQAM DL-capable Local Cell.] [FDD - The Node B shall include the Enhanced FACH Capability IE set to "Enhanced FACH Capable" for every Enhanced FACH-capable Local Cell.] [FDD - The Node B shall include the SixteenQAM UL Capability IE set to "SixteenQAM UL Capable" for every SixteenQAM UL-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the MBSFN Only Mode Capability IE set to "MBSFN Only Mode Capable" for every MBSFN Only Mode-capable Local Cell.] [FDD - The Node B shall include the F-DPCH Slot Format Capability IE set to "F-DPCH Slot Format Capable" for every F-DPCH Slot Formatcapable Local Cell.] The Node B shall include the E-DPCCH Power Boosting Capability IE set to "E-DPCCH Power Boosting Capable " for every E-DPCCH Power Boosting -capable Local Cell. [FDD - The Node B shall include the

*MIMO Power Offset For S-CPICH Capability* IE set to "S-CPICH Power Offset Capable" for every MIMO-capable Local Cell able to transmit S-CPICH at a power offset from P-CPICH.] [FDD - The Node B shall include the *TX Diversity on DL Control Channels by MIMO UE Capability* IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable" for every MIMO-capable Local Cell able to support DL control channels in transmit diversity for MIMO UEs when when MIMO is active and P-CPICH is not transmitted in diversity mode [7].] [FDD - For every MIMO-capable Local Cell the Node B may include the *Precoding Weight Set Restriction* IE set to "Preferred", if configuration of the precoding weight set restriction defined in [18] is preferred.]

[TDD - The Node B shall include the *Reference Clock Availability* IE to indicate the availability of a Reference clock connected to the Local Cell.]

If the Node B internal resources are pooled for a group of cells, the Node B shall include one *Local Cell Group Information* IE containing the Node B internal resource capacity and the consumption laws per group of cells [FDD - , including also the *E-DCH Capacity consumption Law* IE, if E-DCH is supported] [TDD - , including also the *E-DCH TDD Capacity Consumption Law* IE, if E-DCH is supported]. If the *UL Capacity Credit* IE is not present in the *Local Cell Group Information* IE, then the internal resource capabilities of the Node B for the Local Cell Group are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include one *Power Local Cell Group Information* IE containing the Maximum DL Power Capability for each Power Local Cell Group for which this value is known by the Node B. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to a Power Local Cell Group reported in the *Power Local Cell Group Information* IE. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

The Node B shall include, for each local cell present in the Node B, the Node B internal resource capability and consumption laws within the *Local Cell Information* IE [FDD - , including also the *E-DCH CapacityCconsumption Law*, if E-DCH is supported] [TDD - , including also the *E-DCH TDD Capacity Consumption Law* IE, if E-DCH is supported]. If the *UL Capacity Credit* IE is not present in the *Local Cell Information* IE, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink. If the Local Cell utilises Node B internal resource capabilities that are pooled for several Local Cell(s), the *Local Cell Group ID* IE shall contain the identity of the used Local Cell Group. If the Local Cell utilises Node B internal power resources that are pooled for several Local Cells, the *Power Local Cell Group ID* IE shall contain the identity of the concerned Power Local Cell Group.

The Node B shall include one *Cell Information* IE for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE = "0". The Node B shall include the *HS-DSCH Resources Information* IE for every Cell which has been configured with HS-DSCH resources. [FDD - The Node B shall include the *E-DCH Resources Information* IE for every Cell which has been configured with E-DCH resources.] [TDD - The Node B shall include the *E-DCH Resources Information* IE and the [3.84Mcps TDD - *E-RUCCH Information* 7.68Mcps IE]for every cell which has been configured with E-DCH resources.]

[1.28Mcps TDD - The Node B may include the *UpPCH Information LCR* IE for each frequency on which the UpPCH channel is not configured in the timeslot of UpPTS.]

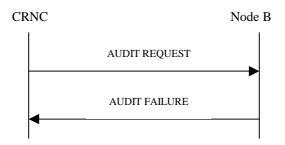
[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources for the whole cell.]

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources for the whole cell.]

The Node B shall also include one *Communication Control Port Information* IE for each Communication Control Port in the Node B.

[1.28Mcps TDD - For a multi-frequency cell, the Node B should report the status of the resources used for each frequency. A reporting method can be found in Annex E.]

# 8.2.7.3 Unsuccessful Operation



# Figure 10A: Audit procedure, Unsuccessful Operation

If the Node B cannot perform an audit of the configuration and status of the logical resources, it shall send a AUDIT FAILURE message with the *Cause* IE set to an appropriate value.

# 8.2.7.4 Abnormal Conditions

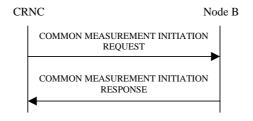
If the Node B receives the AUDIT REQUEST message with the *Start Of Audit Sequence Indicator* IE set to "not start of audit sequence" and there is no ongoing audit sequence, the Node B shall send the AUDIT FAILURE message with the appropriate cause value.

# 8.2.8 Common Measurement Initiation

### 8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

# 8.2.8.2 Successful Operation



### Figure 11: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

[TDD - If the [3.84Mcps TDD and 7.68Mcps TDD - *Time Slot* IE] [1.28Mcps TDD - *Time Slot LCR* IE] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

[1.28Mcps TDD - If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the available time slots in the frequency.]

[1.28Mcps TDD - If *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the frequencies in the cell.]

[1.28Mcps TDD - If neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all time slots in all frequencies in which the measurements are applicable and the *Additional Time Slot LCR* IE should be ignored.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested additional time slots indicated in the *Additional Time Slot LCR* IE.]

[1.28Mcps TDD - If the *UpPCH Position LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, and the *Common Measurement Type* IE is set to "UpPCH interference", the measurement request shall apply to the requested UpPCH position individually.]

If the *Common Measurement Type* IE is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator* IE is set to "FN Reporting Required", the *SFN* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", the *SFN Reporting Indicator* IE shall be ignored.

[FDD - If the *Common Measurement Type* IE is set to "Received Scheduled E-DCH Power Share" and the *RTWP\* Reporting Indicator* IE is set to "RTWP\* Reporting Required", the *RTWP\* Value* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". This is the received total wideband power (RTWP) determined for the same time period during which RSEPS is determined.]

[FDD - If the *Common Measurement Type* IE is set to "Received Scheduled E-DCH Power Share for Cell Portion" and the *RTWP\*for Cell Portion Reporting Indicator* IE is set to "RTWP\* Reporting Required", the *RTWP\* Value* IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand".]

[1.28Mcps TDD - For a multi-frequency cell, if *Common Measurement Type* IE is set to "HS-DSCH Provided Bit Rate", and the *UARFCN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the indicated frequency, if *Common Measurement Type* IE is set to "HS-DSCH Provided Bit Rate", and the *UARFCN* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the whole cell.]

#### **Common measurement type:**

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID* IE and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id)* IE in the *Neighbouring Cell Measurement Information* IE.

[FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion", "HS-DSCH Required Power for Cell Portion", "HS-DSCH Provided Bit Rate for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the Node B shall initiate the corresponding measurements for all the cell portions which are configured under the cell indicated by *C-ID* IE in the COMMON MEASUREMENT INITIATION REQUEST message.]

#### **Report characteristics:**

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *SFN* IE is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time*  *Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD - If the *Common Measurement Type* IE is set to "Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD - If the *Common Measurement Type* IE is set to "Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. [FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. [FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the Report Characteristics IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the Report Periodicity IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the Measurement Threshold 2 IE is not present, the Node B shall use the value of the Measurement Threshold 1 IE instead. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the Common Measurement Type IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD - If the Common Measurement Type IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.]

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement

Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurement for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "HS-DSCH Required Power for Cell Portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement is the corresponding measurement for each cell portion", the measurement for each cell portion" or "Received Scheduled E-DCH Power Share for Cell Portion", the measurement entity to be considered is the cell portion.]

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

- 1. If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
  - If the TUTRAN-GPS Change Limit IE is included in the TUTRAN-GPS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of TUTRAN-GPS value (Fn). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of Fn rises above the threshold indicated by the TUTRAN-GPS Change Limit IE. The change of TUTRAN-GPS value (Fn) is calculated according to the following:

Fn = 0 for n = 0

 $Fn = (Mn - Mn - 1) \mod 37158912000000 - ((SFNn - SFNn - 1) \mod 4096) *10*3.84*10^3*16 + Fn - 10^3 + 10$ 

for n > 0

Fn is the change of the TUTRAN-GPS value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

Mn is the latest measurement result received after point C in the measurement model [25], measured at SFNn.

Mn-1 is the previous measurement result received after point C in the measurement model [25], measured at SFNn-1.

M1 is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

M0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted*  $T_{UTRAN-GPS}$  *Deviation Limit* IE is included in the  $T_{UTRAN-GPS}$  *Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P<sub>n</sub> and F<sub>n</sub> The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the *Predicted*  $T_{UTRAN-GPS}$  *Deviation Limit* IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

 $P_n = b$  for n = 0

 $P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + ((SFN_n - SFN_{n-1}) \mod 4096) * 10 * 3.84 * 10^3 * 16 + P_{n-1}) \mod 3715891200000$  for n > 0

 $F_n = min((M_n - P_n) \mod 37158912000000, (P_n - M_n) \mod 37158912000000)$  for n > 0

 $P_n$  is the predicted T<sub>UTRAN-GPS</sub> value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T<sub>UTRAN-GPS</sub> Drift Rate value.

b is the last reported T<sub>UTRAN-GPS</sub> value.

 $F_n$  is the deviation of the last measurement result from the predicted T<sub>UTRAN-GPS</sub> value (P<sub>n</sub>) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 $M_n$  is the latest measurement result received after point C in the measurement model [25], measured at SFN<sub>n</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GPS}$  Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [25].

- 2. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference":
- If the SFN-SFN Change Limit IE is included in the SFN-SFN Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value (F<sub>n</sub>). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the SFN-SFN Change Limit IE. The change of the SFN-SFN value is calculated according to the following:

 $F_n=0$  for n=0[FDD -  $F_n = (M_n - a) \mod 614400$  for n>0] [TDD -  $F_n = (M_n - a) \mod 40960$  for n>0]

 $F_n$  is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

 $M_n$  is the latest measurement result received after point C in the measurement model [25], measured at SFN<sub>n</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P<sub>n</sub> and F<sub>n</sub> The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when the F<sub>n</sub> rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

 $P_n = b$  for n = 0

 $[FDD - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + P_{n-1}) \mod 614400 \quad for n > 0] \\ [FDD - F_n = \min((M_n - P_n) \mod 614400, (P_n - M_n) \mod 614400) \quad for n > 0] \\ [TDD - P_n = ((a/16) * (15*(SFN_n - SFN_{n-1}) \mod 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) \mod 40960 \quad for n > 0] \\ [TDD - F_n = \min((M_n - P_n) \mod 40960, (P_n - M_n) \mod 40960) \quad for n > 0] \\$ 

 $P_n$  is the predicted *SFN-SFN* value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN Drift Rate value.

*b* is the last reported SFN-SFN value.

abs denotes the absolute value.

 $F_n$  is the deviation of the last measurement result from the predicted *SFN-SFN* value (P<sub>n</sub>) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 $M_n$  is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot TS<sub>n</sub> of] the Frame SFN<sub>n</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [25].

- 3. If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning":
- If the  $T_{UTRAN-GANSS}$  Change Limit IE is included in the  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of  $T_{UTRAN-GANSS}$  value (F<sub>n</sub>). The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F<sub>n</sub> rises above the threshold indicated by the  $T_{UTRAN-GANSS}$  value (F<sub>n</sub>) is calculated according to the following:

 $F_n = 0$  for n = 0

 $F_n = (GAM_n - GAM_{n-1}) \mod 5308416000000 - ((SFN_n - SFN_{n-1}) \mod 4096) *10*3.84*10^{3}*16 + F_{n-1}$ 

for n > 0

 $F_n$  is the change of the T<sub>UTRAN-GANSS</sub> value expressed in unit [1/16 chip] when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 $GAM_n$  is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at  $SFN_n$ .

 $GAM_{n-1}$  is the previous GANSS measurement result received after point C in the GANSS measurement model, measured at  $SFN_{n-1}$ .

 $GAM_1$  is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

 $GAM_0$  is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

GANSS measurement model is the timing between cell j and GANSS Time Of Day.  $T_{UE-GANSSj}$  is defined as the time of occurrence of a specified UTRAN event according to GANSS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) in the first detected path (in time) of the cell j CPICH, where cell j is a cell chosen by the UE. The reference point for  $T_{UE-GANSSj}$  shall be the antenna connector of the UE.

 If the Predicted T<sub>UTRAN-GANSS</sub> Deviation Limit IE is included in the T<sub>UTRAN-GANSS</sub> Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the P<sub>n</sub> and F<sub>n</sub>. The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when F<sub>n</sub> rises above the threshold indicated by the Predicted T<sub>UTRAN-GANSS</sub> Deviation Limit IE. The P<sub>n</sub> and F<sub>n</sub> are calculated according to the following:

 $P_n = b$  for n = 0

 $P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + ((SFN_n - SFN_{n-1}) \mod 4096) * 10*3.84*10^{3}*16 + P_{n-1}) \mod 5308416000000 \qquad for n > 0$ 

 $F_n = min((GAM_n - P_n) \mod 5308416000000, (P_n - GAM_n) \mod 5308416000000)$  for n > 0

 $P_n$  is the predicted T<sub>UTRAN-GANSS</sub> value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T<sub>UTRAN-GANSS</sub> Drift Rate value.

b is the last reported T<sub>UTRAN-GANSS</sub> value.

 $F_n$  is the deviation of the last measurement result from the predicted T<sub>UTRAN-GANSS</sub> value (P<sub>n</sub>) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

 $GAM_n$  is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at  $SFN_n$ .

 $GAM_1$  is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

The T<sub>UTRAN-GANSS</sub> Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [25].

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Common Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

### **Higher layer filtering:**

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows:

 $F_n$  is the updated filtered measurement result

 $F_{n-1}$  is the old filtered measurement result

 $M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

 $a = 1/2^{(k/2)}$ , where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

#### **Common measurement accuracy:**

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the *UTRAN GPS Timing Measurement Accuracy Class* IE included in the *Common Measurement Accuracy* IE according to the following:

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

If the *Common Measurement Type* IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall use the  $T_{UTRAN-GANSS}$  Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:

- If the *T<sub>UTRAN- GANSS</sub> Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *T<sub>UTRAN- GANSS</sub> Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the *T<sub>UTRAN-GANSS</sub> Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

#### **Measurement Recovery Behavior:**

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.2.9.2.

#### [FDD - Noise Floor Reporting:]

[FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power" and if the *Reference Received Total Wide Band Power Reporting* IE is included in the same COMMON MEASUREMENT INITIATION REQUEST message, the Node B may include the *Reference Received Total Wide Band Power* IE in the message used to report the common measurement.]

[FDD - If the *Reference Received Total Wide Band Power Reporting* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall if supported, include the *Reference Received Total Wide Band Power Support Indicator* IE or the *Reference Received Total Wide Band Power* IE in the COMMON MEASUREMENT INITIATION RESPONSE.]

#### **Response message:**

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the *Report Characteristics* IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the measurement result and also the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" or "UTRAN GANSS Timing of Cell Frames for UE positioning".

[1.28Mcps TDD –If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the available time slots in the frequency.]

[1.28Mcps TDD - If *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the frequencies in the cell.]

[1.28Mcps TDD - If neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all available time slots in all frequencies and the *Additional Time Slot LCR* IE should be ignored.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message and the measurement result is included, the measurement results of the additional time slot (s) should be included in the COMMON MEASUREMENT INITIATION RESPONSE message.]

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node

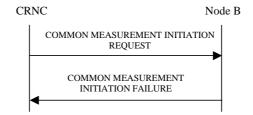
B shall include in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE the *SFN-SFN Quality* IE and the *SFN-SFN Drift Rate Quality* IE, if available.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the Node B shall include in the  $T_{UTRAN-GPS}$  Measurement Value Information IE the  $T_{UTRAN-GPS}$  Quality IE and the  $T_{UTRAN-GPS}$  Drift Rate Quality IE, if available.

[FDD - If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion", "HS-DSCH Required Power for Cell Portion" or "HS-DSCH Provided Bit Rate for Cell Portion" and the *Report Characteristics* IE is set to "On Demand", all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT INITIATION RESPONSE message.]

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the Node B shall include in the  $T_{UTRAN-GANSS}$  Measurement Value Information IE, the  $T_{UTRAN-GANSS}$  Quality IE and the  $T_{UTRAN-GANSS}$  Drift Rate Quality IE, if available.

# 8.2.8.3 Unsuccessful Operation



#### Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated [1.28Mcps TDD-in any time slot], the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message over the Node B Control Port. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Measurement not supported for the object.
- Measurement Temporarily not Available

### 8.2.8.4 Abnormal Conditions

The allowed combinations of the Common Measurement Type received in the *Common Measurement Type* IE and the Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message are shown in the table below. For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

Common Measurement Type	Common Measurement Object Type					
	Cell	RACH	Power Local Cell Group			
Received Total Wide Band Power	Х					
Transmitted Carrier Power	Х					
Acknowledged PRACH Preambles		Х				
UL Timeslot ISCP	Х					
UTRAN GPS Timing of Cell Frames for UE Positioning	Х					
SFN-SFN Observed Time Difference	X X					
[TDD - Transmitted carrier power of all codes not used for HS- PDSCH or HS-SCCH transmission] [FDD - Transmitted carrier power of all codes not used for HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission]	X					
HS-DSCH Required Power	Х					
HS-DSCH Provided Bit Rate	Х					
Received Total Wide Band Power for Cell Portion	FDD only					
Transmitted Carrier Power for Cell Portion	FDD only					
Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion						
UpPCH interference	1.28 Mcps TDD only					
DL Transmission Branch Load	FDD only		FDD only			
HS-DSCH Required Power for Cell Portion	FDD only					
HS-DSCH Provided Bit Rate for Cell Portion	FDD only					
E-DCH Provided Bit Rate	Х					
E-DCH Non-serving Relative Grant Down Commands	FDD only					
Received Scheduled E-DCH Power Share	FDD only					
Received Scheduled E-DCH Power Share for Cell Portion	FDD only					
UTRAN GANSS Timing of Cell Frames for UE Positioning	Х					

# Table 3a: Allowed Common Measurement Type and Common Measurement Object Type combinations

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD and 7.68Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR* IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]

[1.28Mcps TDD - For a multi-frequency cell, if the *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, only on-demand and period measurement could be used, otherwise, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GPS}$  Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the  $T_{UTRAN-GPS}$  Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", but the  $T_{UTRAN-GANSS}$  Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the

COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[FDD - If the COMMON MEASUREMENT INITIATION REQUEST message contains the *Reference Received Total Wide Band Power Reporting* IE and it does not contain the *Common Measurement Type* IE set to "Received Total Wide Band Power", the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

Common	Report Characteristics Type								
Common Measurement Type	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total	X	Х	X	X	X	X		X	line di licultori
Wide Band Power		~							
Transmitted Carrier Power	Х	Х	Х	Х	Х	Х	Х	Х	
Acknowledged PRACH Preambles	Х	Х	Х	Х	Х	Х	Х	Х	
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GPS	Х	Х							Х
Timing of Cell Frames for UE Positioning									
SFN-SFN	Х	Х							Х
Observed Time									
Difference									
[TDD - Transmitted carrier power of all codes not used for HS-PDSCH or HS- SCCH transmission]	x	x	X	X	X	X	X	X	
[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH transmission]									
HS-DSCH	Х	Х	Х	Х			Х	Х	
Required Power									
HS-DSCH Provided Bit Rate	х	х							
[FDD - Received Total Wide Band Power for Cell Portion]	X	X	x	x	X	x	x	x	
[FDD - Transmitted	Х	Х	Х	Х	Х	Х	Х	Х	
Carrier Power for Cell Portion]	~	~	^	^	~	^	^	^	
[FDD - Transmitted carrier power of all	x	х	Х	Х	Х	Х	Х	Х	
codes not used for HS-PDSCH, HS- SCCH, E-AGCH, E-RGCH or E- HICH transmission for Cell Portion]									
UpPTS interference	Х	Х	Х	Х	Х	Х	Х	Х	
DL Transmission Branch Load	Х	Х	Х	Х			Х	Х	
[FDD - HS-DSCH Required Power for Cell Portion]	Х	Х	X	Х			х	x	
[FDD - HS-DSCH Provided Bit Rate for Cell Portion]	Х	Х							
E-DCH Provided Bit Rate	х	Х							
E-DCH Non- serving Relative Grant Down Commands	Х	Х	Х	Х			Х	Х	

# Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations

Received Scheduled E-DCH	Х	Х	Х	Х	Х	Х	Х	Х	
Power Share									
[FDD - Received Scheduled E-DCH Power Share for Cell Portion]	X	X	Х	Х	Х	Х	Х	Х	
UTRAN GANSS Timing of Cell Frames for UE Positioning	X	X							X

If the *SFN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic", "On Demand" or "On Modification", the Node B shall regard the Common Measurement Initiation procedure as failed.

# 8.2.9 Common Measurement Reporting

# 8.2.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Common Measurement Initiation procedure.

# 8.2.9.2 Successful Operation



# Figure 13: Common Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Common Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B Control Port.

The *Measurement ID* IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Common Measurement Initiation procedure.

[1.28Mcps TDD –If *Time Slot LCR* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all the available time slots in the frequency should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If *UARFCN* IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all the frequencies in the cell should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If neither *UARFCN* IE nor *Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all available time slots in all frequencies should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

[1.28Mcps TDD - If *Additional Time Slot LCR* IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of the additional time slot (s) should be included in the COMMON MEASUREMENT INITIATION REPORT message.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref.[22] and [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the *Common Measurement Value Information* IE shall indicate Measurement not Available. If the Node B was configured to perform

the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [22] and [23]) and include the *Measurement Recovery Report Indicator* IE in the COMMON MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

For measurements included in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE, the Node B shall include the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE if available.

If the Common Measurement Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall include in the  $T_{UTRAN-GPS}$  Measurement Value Information IE the  $T_{UTRAN-GPS}$  Quality IE and the  $T_{UTRAN-GPS}$  Drift Rate Quality IE, if available.

If the Common Measurement Type provided by RNC when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall include in the  $T_{UTRAN-GANSS}$  Measurement Value Information IE the  $T_{UTRAN-GANSS}$  Quality IE and the  $T_{UTRAN-GANSS}$  Drift Rate Quality IE, if available.

[FDD - For Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion, Received Scheduled E-DCH Power Share for Cell Portion measurements, all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT REPORT message.]

# 8.2.9.3 Abnormal Conditions

# 8.2.10 Common Measurement Termination

# 8.2.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Common Measurement Initiation procedure.

# 8.2.10.2 Successful Operation



### Figure 14: Common Measurement Termination procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate reporting of common measurements corresponding to the received *Measurement ID* IE.

# 8.2.10.3 Abnormal Conditions

# 8.2.11 Common Measurement Failure

# 8.2.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Common Measurement Initiation procedure can no longer be reported.

# 8.2.11.2 Successful Operation



#### Figure 15: Common Measurement Failure procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

# 8.2.11.3 Abnormal Conditions

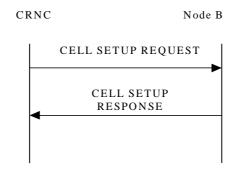
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# 8.2.12 Cell Setup

#### 8.2.12.1 General

This procedure is used to set up a cell in the Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in the Node B identified via the *Local Cell ID* IE.

# 8.2.12.2 Successful Operation



#### Figure 16: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value. [1.28Mcps TDD - For a multi-frequency cell, at any instance of time, the total maximum output power for each frequency of the cell shall not be above this value.]

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN Offset* IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the *Reference SFN Offset* IE if included.]

[FDD - If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the *IPDL Parameter Information* IE containing *IPDL TDD Parameters* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD and 7.68Mcps TDD modes shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the *IPDL Parameter Information LCR* IE containing *IPDL TDD Parameters LCR* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the *IPDL Indicator* IE value. For MBSFN only mode, this IE shall be ignored by the Node B. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - For a multi-frequency cell, the *UARFCN Information LCR* IE indicates information about the configuration of the frequency and timeslot of the secondary frequency/frequencies.]

When the cell is successfully configured, the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD and 7.68Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD / 7.68Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled [6].

[1.28Mcps TDD - For a multi-frequency cell, the Node B shall consider the cell as having been successfully configured as long as the primary frequency is normally setup. When the cell is successfully configured, the Node B shall respond with the CELL SETUP RESPONSE message.]

[TDD - The Node B shall ignore the DPCH/PUSCH/PRACH Constant Value IEs.]

[1.28Mcps TDD - For a multi-frequency cell, when the cell is successfully configured, the Node B shall configure the UpPCH channel of the primary frequency in the timeslot of UpPTS.]

[FDD - If the CELL SETUP REQUEST message includes *Cell Portion Information* IE, the Node B shall associate *Associated Secondary CPICH* IE to the cell portion indicated by *Cell Portion ID* IE and the *Maximum Transmission Power for Cell Portion* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by *Cell Portion ID* IE shall not be above this value.]

[FDD - If the *MIMO Pilot Configuration* IE is included in the CELL SETUP REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL SETUP REQUEST message includes the *MBSFN Cell Parameter ID* IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling codes and midambles dictated by the *MBSFN Cell Parameter ID* IE.]

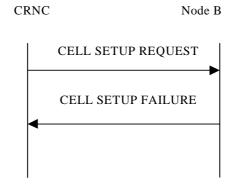
[1.28Mcps TDD - If the CELL SETUP REQUEST message includes the *MBSFN Only Mode Indicator* IE, the Node B shall configure the associated timeslot(s) to operate as MBSFN time slot(s) using the scrambling codes and basic midamble codes dictated by the *Time Slot Parameter ID* IE.]

[1.28Mcps TDD - If the cell is operating in MBSFN only mode, the *DwPCH Information* IE shall be ignored by the Node B.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot [19].]

[FDD - If the *MIMO Pilot Configuration Extension* IE is included in CELL SETUP REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10]]

# 8.2.12.3 Unsuccessful Operation



### Figure 17: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to the CRNC.

In this case, the cell is Not Existing in the Node B. The Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported
- [FDD S-CPICH power offset support not available]

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.12.4 Abnormal Conditions

If the state of the cell already is Enabled or Disabled [6] when the CELL SETUP REQUEST message is received in the Node B, it shall reject the configuration of the cell and all channels in the CELL SETUP REQUEST message by sending a CELL SETUP FAILURE message with the *Cause* IE set to "Message not compatible with receiver state".

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

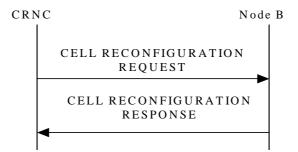
If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

# 8.2.13 Cell Reconfiguration

# 8.2.13.1 General

This procedure is used to reconfigure a cell in the Node B.

# 8.2.13.2 Successful Operation



# Figure 18: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE, the Node B shall reconfigure the Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE, the Node B shall reconfigure the Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE, the Node B shall reconfigure the Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* 7.68Mcps IE, the Node B shall reconfigure the SCH power in the cell according to the *SCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE, the Node B shall reconfigure the BCH power in the cell according to the *BCH Power* IE value.]

[1.28Mcps TDD and 3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *PCCPCH Information* 7.68Mcps IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the *PCCPCH Power* IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot* IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Time Slot Configuration LCR* IE, the Node B shall reconfigure switching-point structure in the cell according to the *Time Slot LCR* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *DPCH/PUSCH/PRACH Constant Value* IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *DwPCH Information* IE, the Node B shall reconfigure the DwPCH power in the Cell according to the *DwPCH Power* IE.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL FDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL FDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters* IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information LCR* IE with the *IPDL Indicator* IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the *IPDL TDD Parameters LCR* IE. If the *Burst Mode Parameters* IE is included in the *IPDL TDD Parameters LCR* IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with *the IPDL Indicator* IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the *N\_INSYNC\_IND*, *N\_OUTSYNC\_IND* and *T\_RLFAILURE* IEs. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD - If the CELL RECONFIGURATION REQUEST message includes *Cell Portion Information* IE, the *Maximum Transmission Power for Cell Portion* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by *Cell Portion ID* IE shall not be above this value.]

[FDD - If the *MIMO Pilot Configuration* IE is included in the CELL RECONFIGURATION REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *MBSFN Cell Parameter ID* IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling code and midamble dictated by the *MBSFN Cell Parameter ID* IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *UARFCN Information To Add LCR* IE, the Node B shall reserve the necessary resource and add a secondary frequency to the cell according to the information indicated in the *UARFCN Information To Add LCR* IE.]

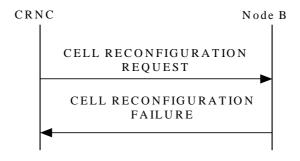
[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the UARFCN Information To Modify LCR IE, the Node B shall reconfigure the configuration of the secondary frequency within the cell according to the information indicated in the UARFCN Information To Modify LCR IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the UARFCN Information To Delete LCR IE, the Node B shall remove the secondary frequency from the cell and any remaining dedicated channels on the secondary frequency according to the frequency information given in the UARFCN Information To Delete LCR IE. The states for the frequency within the cell shall be set to "Not existing". The Node B shall remove all Radio Links and all Node B Communication Contexts related to the secondary frequency within the cell. The Node B shall also initiate the release of the user plane transport bearers for the removed dedicated channels on the secondary frequency within the cell.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot [19].]

[FDD - If the *MIMO Pilot Configuration Extension* IE is included in CELL RECONFIGURATION REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10]]

# 8.2.13.3 Unsuccessful Operation



#### Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Power level not supported

- Node B Resources unavailable
- IPDL not supported
- [FDD S-CPICH power offset support not available]

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".

If the *IPDL Indicator* IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

# 8.2.14 Cell Deletion

# 8.2.14.1 General

This procedure is used to delete a cell in the Node B.

# 8.2.14.2 Successful Operation

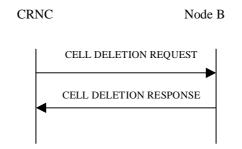


Figure 20: Cell Deletion procedure, Successful Operation

The procedure is initiated with a CELL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon reception, the Node B shall remove the cell and any remaining common and dedicated channels within the cell. The states for the cell and the deleted common channels shall be set to Not Existing [6]. The Node B shall remove all Radio Links from the Cell and all Node B Communication Contexts that as a result do not have a Radio Link. The Node B shall also initiate release of the user plane transport bearers for the removed common and dedicated channels except the case that there is at least one FACH channel in this cell using the same transport bearer existing in other cell(s) in the Node B. In this case, the Node B shall remove the cell and any remaining common and

dedicated channels within the cell but keep the common transport bearer which is used by the remaining common transport channel(s) in other cell(s).

When the cell is deleted, the Node B shall send a CELL DELETION RESPONSE message as a response.

# 8.2.14.3 Unsuccessful Operation

#### -

# 8.2.14.4 Abnormal Conditions

If the CELL DELETION REQUEST message includes a *C-ID* IE value that is not existing in the Node B, the Node B shall respond with the CELL DELETION RESPONSE message.

# 8.2.15 Resource Status Indication

# 8.2.15.1 General

This procedure is used in the following cases:

- 1. When a Local Cell becomes Existing at the Node B.
- 2. When a Local Cell is to be deleted in Node B, i.e. becomes Not Existing.
- 3. When the capabilities of the Local Cell change at the Node B.
- 4. When a cell has changed its capability and/or its resource operational state at the Node B.
- 5. When common physical channels and/or common transport channels have changed their capabilities at the Node B.
- 6. When a Communication Control Port has changed its resource operational state at the Node B.
- 7. When a Local Cell Group has changed its resource capability at the Node B.
- 8. [1.28Mcps TDD For a multi-frequency cell, when a cell has been successfully set up but a secondary frequency failure has occurred within the cell.]

Each of the above cases shall trigger a Resource Status Indication procedure and the RESOURCE STATUS INDICATION message shall contain the logical resources affected for that case and the cause value when applicable.

# 8.2.15.2 Successful Operation



### Figure 21: Resource Status Indication procedure, Successful Operation

The procedure is initiated with a RESOURCE STATUS INDICATION message sent from the Node B to the CRNC using the Node B Control Port.

#### Local Cell Becomes Existing:

When a Local Cell becomes Existing at the Node B, the Node B shall make it available to the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the *Local Cell ID* IE and the *Add/Delete Indicator* IE set equal to "Add".

When the capacity credits and consumption laws are shared between several Local Cells, the Node B includes the *Local Cell Group ID* IE for the Local Cell. If the *Local Cell Group Information* IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include the capacity credits and the consumption laws in the *Local Cell Group Information* IE [FDD - , including also the E-DCH capacity consumption law, if E-DCH is supported].

If the *Local Cell* IE contains both the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE, then the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink. If the *Local Cell Group Information* IE contains both the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE, then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include the *Power Local Cell Group ID* IE for the Local Cell. If the *Power Local Cell Group Information* IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include this IE for the concerned Power Local Cell Group in this message. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

If the Local Cell is HSDPA-capable when it becomes Existing, the Node B shall include the *HSDPA Capability* IE set to "HSDPA Capable" and may include *HS-DSCH MAC-d PDU Size Capability* IE for the Local Cell.

If the Local Cell is E-DCH-capable when it becomes Existing, the Node B shall include the *E-DCH Capability* IE set to "E-DCH Capable" for the Local Cell.

If the Local Cell is MBMS-capable when it becomes Existing, the Node B shall include the *MBMS Capability* IE set to "MBMS Capable" for the Local Cell.

[FDD - If the Local Cell is F-DPCH-capable when it becomes Existing, the Node B shall include the *F-DPCH Capability* IE set to "F-DPCH Capable" for the Local Cell.]

[FDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Continuous Packet Connectivity DTX-DRX Capability* IE set to "Continuous Packet Connectivity DTX-DRX Capable" for the Local Cell when Continuous Packet Connectivity DTX-DRX is supported.]

[FDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the *Continuous Packet Connectivity HS-SCCH less Capability* IE set to "Continuous Packet Connectivity HS-SCCH less is supported.]

[FDD - If the Local Cell is MIMO-capable when it becomes Existing, then the Node B shall include the *MIMO Capability* IE set to "MIMO Capable" for the Local Cell.]

[FDD - If the Local Cell is SixtyfourQAM DL-capable when it becomes Existing, then the Node B shall include the *SixtyfourQAM DL Capability* IE set to "SixtyfourQAM DL Capable" for the Local Cell.]

[FDD - If the Local Cell is Enhanced FACH-capable when it becomes Existing, the Node B shall include the *Enhanced* FACH Capability IE set to "Enhanced FACH Capable" for the Local Cell.]

[FDD - If the Local Cell is SixteenQAM UL-capable when it becomes Existing, then the Node B shall include the *SixteenQAM UL Capability* IE set to "SixteenQAM UL Capable" for the Local Cell.]

[1.28Mcps TDD - If the Local Cell is MBSFN Only Mode-capable when it becomes Existing, the Node B shall include the *MBSFN Only Mode Capability* IE set to "MBSFN Only Mode Capable" for the Local Cell.]

[FDD - If the Local Cell is F-DPCH Slot Format-capable when it becomes Existing, then the Node B shall include the *F-DPCH Slot Format Capability* IE set to "F-DPCH Slot Format Capable" for the Local Cell.]

If the Local Cell is E-DPCCH Power Boosting-capable when it becomes Existing, the Node B shall include the *E*-DPCCH Power Boosting Capability IE set to "E-DPCCH Power Boosting Capable" for the Local Cell.

[FDD - If the Local Cell is MIMO-capable and supports the MIMO Power Offset For S-CPICH Capability when it becomes Existing, the Node B shall include the *MIMO Power Offset For S-CPICH Capability* IE set to "S-CPICH Power Offset Capable " for the Local Cell.]

[FDD - If the Local Cell is MIMO-capable and supports DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode [7]) when it becomes Existing, the Node B shall include the *TX Diversity on DL Control Channels by MIMO UE Capability* IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable".]

[FDD - If the Local Cell, when it becomes Existing, is MIMO-capable and configuration of the precoding weight set restriction defined in [18] is preferred, the Node B may include the *Precoding Weight Set Restriction* IE set to "Preferred" for the Local Cell.]

# Local Cell Deletion:

When a Local Cell is to be deleted in the Node B, i.e. becomes Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the *Local Cell ID* IE and the *Add/Delete Indicator* IE set to "Delete". The Node B shall not withdraw a previously configured cell at the Node B that the CRNC had configured using the Cell Setup procedure, until the CRNC has deleted that cell at the Node B using the Cell Delete procedure.

### Capability Change of a Local Cell:

When the capabilities of a Local Cell change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Local Cell ID* IE.

The Node B shall include the Minimum DL Power Capability IE when it is known by the Node B.

If the maximum DL power capability of the Local Cell has changed, the new capability shall be indicated in the *Maximum DL Power Capability* IE.

If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the *Minimum Spreading Factor* IE.

[TDD - If the availability of the Reference clock connected to a Local Cell has changed, the new availability condition shall be indicated in the *Reference Clock Availability* IE.]

The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

If the internal resource capabilities of the Local Cell are affected, it shall be reported in the following way:

- If the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink, the new capacity shall be reported in the *DL Or Global Capacity Credit* IE.
- If the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction, then the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE shall be present in the RESOURCE STATUS INDICATION.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell, the new law shall be reported by the Node B in the *Common Channels Capacity Consumption Law* IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell, the new law shall be reported by the Node B in the *Dedicated Channels Capacity Consumption Law* IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the *E-DCH Capacity Consumption Law* IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the *E-DCH TDD Capacity Consumption Law* IE.]

If the HSDPA capability has changed for the Local Cell, the new capability shall be indicated in the HSDPA Capability IE.

If the HS-DSCH MAC-d PDU Size Capability has changed for the Local Cell, the new capability shall be indicated in the *HS-DSCH MAC-d PDU Size Capability* IE.

If the E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the *E-DCH Capability* IE. [FDD - The Node B shall include the *E-DCH Capability* IE if any of the E-DCH TTI2ms, SF or HARQ Combining capabilities has changed for the E-DCH capable Local Cell.]

If the MBMS capability has changed for the Local Cell, the new capability shall be indicated in the *MBMS Capability* IE.

[FDD - If the F-DPCH capability has changed for the Local Cell, the new capability shall be indicated in the *F-DPCH Capability* IE.]

[FDD - If the Continuous Packet Connectivity DTX-DRX capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Continuous Packet Connectivity DTX-DRX Capability* IE. The Node B shall include the *Continuous Packet Connectivity DTX-DRX Capability* IE if the Max UE DTX Cycle supported by the Continuous Packet Connectivity DTX-DRX capable Local Cell has changed. If the Continuous Packet Connectivity HS-SCCH less capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the *Continuous Packet Connectivity* HS-SCCH less Capability IE.]

[FDD - If the MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the *MIMO Capability* IE.]

[FDD - If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the *SixtyfourQAM DL Capability* IE.]

[FDD - If the Enhanced FACH capability has changed for the Local Cell, the new capability shall be indicated in the *Enhanced FACH Capability* IE. The Node B shall include the *Enhanced FACH Capability* IE if the Enhanced PCH capability has changed for the Enhanced PCH capable Local Cell.]

[FDD - If the SixteenQAM UL capability has changed for the Local Cell, then the new capability shall be indicated in the *SixteenQAM UL Capability* IE.]

[1.28Mcps TDD - If the MBSFN Only Mode capability has changed for the Local Cell, the new capability shall be indicated in the *MBSFN Only Mode Capability* IE.]

[FDD - If the F-DPCH Slot Format capability has changed for the Local Cell, then the new capability shall be indicated in the *F-DPCH Slot Format Capability* IE.]

If the Support for E-DPCCH Power Boosting Capability has changed for the Local Cell, the new capability shall be indicated in the *E-DPCCH Power Boosting Capability* IE.

[FDD - If the support for MIMO Power Offset For S-CPICH Capability has changed for the Local Cell, the new capability shall be indicated in the *MIMO Power Offset For S-CPICH Capability* IE.]

[FDD - If the support for DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode [7]) has changed for the Local Cell, the new capability shall be indicated in the *TX Diversity on DL Control Channels by MIMO UE Capability* IE.]

[FDD - If the preference regarding configuration of the precoding weight set restriction defined in [18] has changed for the Local Cell, the new value shall be indicated in the *Precoding Weight Set Restriction* IE.]

#### Capability Change of a Cell:

When the capabilities and/or resource operational state of a cell changes at the Node B, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the *Resource Operational State* IE and the *Availability Status* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

#### Capability Change of a Common Physical Channel and/or Common Transport Channel:

The Node B shall not delete any common or dedicated channels due to the cell being "Disabled". For all affected common and dedicated channels, the Node B shall report the impact to the CRNC with the relevant procedures.

When the capabilities and/or resource operational state of common physical channels and/or common transport channels have changed, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the *Resource Operational State* IE and the *Availability Status* IE set to appropriate values for the affected channel(s). The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When a power value for a common physical channel and/or a common transport channel becomes beyond the supported power value range due to a change in capability in the Node B, it shall be reported to the CRNC in the RESOURCE

STATUS INDICATION message, with the *Resource Operational State* IE set to "Enabled", the *Availability Status* IE set to "Degraded" and the *Cause* IE set to "Power level not supported". Affected channels shall use the nearest power value that is supported.

## [1.28Mcps TDD - Capability Change of a UpPCH channel:]

When the capabilities of UpPCH channels which are not configured in the timeslot of UpPTS on one or multiple frequencies have changed, the Node B may include the *UpPCH Information LCR* IE in the RESOURCE STATUS INDICATION message.

## **Capability Change of a Communication Control Port:**

When the resource operational state of a Communication Control Port has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Communication Control Port ID* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

## **Capability Change of HS-DSCH Resources:**

When the resource operational state of the HS-DSCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *HS-DSCH Resources Information* IE to report the status of the HS-DSCH resources for the whole cell.]

## **Capability Change of E-DCH Resources:**

When the resource operational state of the E-DCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include any *UARFCN* IE in the *E-DCH Resources Information* IE to report the status of the E-DCH resources for the whole cell.]

# Capability Change of a Local Cell Group:

When the resource capabilities of a Local Cell Group change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the *Local Cell Group Information* IE reporting the change. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. If the RESOURCE STATUS INDICATION message contains both the *DL Or Global Capacity Credit* IE and the *UL Capacity Credit* IE, then the internal resource capabilities of the Node B are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the *Common Channels Capacity Consumption Law* IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the *Dedicated Channels Capacity Consumption Law* IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the *E-DCH Capacity Consumption Law* IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the *E-DCH TDD Capacity Consumption Law* IE.]

#### **Capability Change of a Power Local Cell Group:**

When the power capability of a Power Local Cell Group changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the *Power Local Cell Group Information* IE reporting the change. The *Cause* IE in the

RESOURCE STATUS INDICATION message shall be set to an appropriate value. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to the concerned Power Local Cell Group. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

[1.28Mcps TDD - For a multi-frequency cell, when a cell has been successfully setup but a secondary frequency failure has occurred, the Node B shall report the status of the secondary frequency indicated by *UARFCN* IE on which the failure occurred by immediately sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting", the *Resource Operational State* IE and the *Availability Status* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value.]

# General:

When the RESOURCE STATUS INDICATION message is used to report an error, only one cause value for all reported objects can be sent in one message. When the RESOURCE STATUS INDICATION message is used to clear errors, only all errors for one object can be cleared per message. It is not possible to clear one out of several errors for one object.

[1.28Mcps TDD - For a multi-frequency cell, the Node B should report the status of the resources used for each frequency. A reporting method can be found in Annex E.]

# 8.2.15.3 Abnormal Conditions

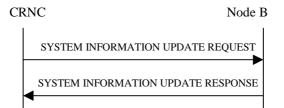
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# 8.2.16 System Information Update

# 8.2.16.1 General

The System Information Update procedure performs the necessary operations in order for the Node B to apply the correct scheduling of and/or to include the appropriate contents to the system information segments broadcast on the BCCH.

# 8.2.16.2 Successful Operation



# Figure 22: System Information Update procedure, Successful Operation

The procedure is initiated with a SYSTEM INFORMATION UPDATE REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall consider the requested updates to the BCCH schedule in the same order as the MIB/SB/SIB information is included in the SYSTEM INFORMATION UPDATE REQUEST message.

If the SYSTEM INFORMATION UPDATE REQUEST message includes the *BCCH Modification Time* IE, the updates to the BCCH schedule (possibly consisting of IB occurrence additions, IB occurrence deletions and IB occurrence contents updates) indicated in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by the Node B at the first time instance starting from the SFN value set by the *BCCH Modification Time* IE. If no *BCCH Modification Time* IE is included, the updates to the BCCH schedule shall be applied as soon as possible.

# Information Block addition:

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SB/SIB, the Node B shall assume that all segments for that Information Block are included in the message and ordered with increasing

Segment Index (starting from 0). For each included segment, segment type information and *IB SG POS* IE are also given in the SYSTEM INFORMATION UPDATE REQUEST message.

The Node B shall determine the correct cell system frame number(s) (SFN) for transmission of the segments of system information, from the scheduling parameters provided in the SYSTEM INFORMATION UPDATE REQUEST message. The SFN for transmitting the segments shall be determined by the *IB SG REP* IE and *IB SG POS* IE such that:

- SFN mod IB\_SG\_REP = IB\_SG\_POS

If the SYSTEM INFORMATION UPDATE REQUEST message contains Master Information Block (MIB) segments in addition to SIB or SB segments, the MIB segments shall first be sent in the physical channel by the Node B. Once these MIB segments have been sent in the physical channel, the updated SB/SIB segments shall then be sent in the physical channel.

Only if the inclusion of each new IB segment in the BCCH schedule leads to a valid segment combination according to [18], the Node B shall accept the system information update.

If the *SIB Originator* IE value is set to "Node B", the Node B shall create the SIB segment of the SIB type given by the *IB Type* IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the *IB SG REP* IE and *IB SG POS* IE.

SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

## **Information Block deletion:**

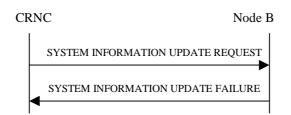
If an IB Deletion is indicated in an instance of *MIB/SB/SIB information* IE in the SYSTEM INFORMATION UPDATE REQUEST message, the Node B shall delete the IB indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

# **Information Block update:**

If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB without *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB segments are included, then the Node B shall only update the contents of the IB segments without any modification in segment scheduling.

If the Node B successfully completes the updating of the physical channel scheduling cycle according to the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond to the CRNC with a SYSTEM INFORMATION UPDATE RESPONSE message.

# 8.2.16.3 Unsuccessful Operation



# Figure 23: System Information Update procedure, Unsuccessful Operation

If the Node B is unable to update the physical channel scheduling cycle according to all the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond with a SYSTEM INFORMATION UPDATE FAILURE message with an appropriate cause value.

The Node B shall not incorporate any of the requested changes into the physical channel scheduling cycle, and the previous system information configuration shall remain intact.

Typical cause values are:

# **Radio Network Layer Cause:**

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- SIB Origination in Node B not Supported

## **Miscellaneous Cause:**

- Hardware failure
- Control Processing overload
- O&M Intervention

# 8.2.16.4 Abnormal Conditions

The Node B shall reject, with the cause value "SIB origination in Node B not supported", requests for Node B originated system information blocks that make use of a value tag.

The Node B shall reject the requested update with cause value "BCCH scheduling error" if:

- After having handled a certain *MIB/SB/SIB information* IE repetition, an illegal BCCH schedule results;
- If a *MIB/SB/SIB Information* IE repetition includes an *IB SG REP* IE or an *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated. This rule shall apply even if the scheduling instructions in *IB SG REP* IE and *IB SG POS* IE were the same as the current scheduling instructions for the concerned IB;
- If a *MIB/SB/SIB Information* IE repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is no IB in the BCCH schedule with the same IB Type and IB OC ID;
- If a *MIB/SB/SIB Information* IE repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated.

# 8.2.17 Radio Link Setup

# 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD - The Radio Link Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of an HS-DSCH on one radio link and it can include the establishment of an E-DCH on one or more radio links.]

[TDD - The Radio Link Setup procedure is used to establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, or DCHs and an HS-DSCH, or DCHs, an HS-DSCH and an E-DCH, including also combinations where one or more transport channel types are not present.]

# 8.2.17.2 Successful Operation



# Figure 24: Radio Link Setup procedure, Successful Operation

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception of the RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

# **Transport Channels Handling:**

## DCH(s):

[TDD - If the *DCH Information* IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not.

- If the Diversity Control Field IE is set to"May", the Node B shall decide for either of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

The signalled *Diversity Control Field* IE is applied to Dedicated Transport Channels (DCH) only. In case of E-DCH it shall always be assumed to be set to "Must". When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the Node B shall indicate for each RL with the Diversity Indication in the *RL Information Response* IE whether the RL is combined or not.]

- [FDD In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, and if the DCH Indicator For E-DCH-HSDPA Operation IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:]
  - [FDD include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message for which the *Transport Bearer Not Requested Indicator* IE was not included the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]
  - [FDD include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]

[FDD - For the first E-DCH RL in the RADIO LINK SETUP RESPONSE message, the Node B shall:]

- [FDD include in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each E-DCH MAC-d flow of this RL.]
- [FDD include in the RADIO LINK SETUP RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every E-DCH MAC-d flow for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK SETUP REQUEST message.]
- [FDD Otherwise in case of combining, the *RL ID* IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined and if the ALCAP is not used and the transport bearer for the DCH is already established, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall not be used. In case of combining an E-DCH RL, one of the RLs previously listed in this RADIO LINK SETUP RESPONSE message including the *E-DCH FDD Information Response* IE shall be regarded as the RL with which the concerned E-DCH RL is combined.]

[TDD - The Node B shall include in the *DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

[TDD - If an E-DCH has been established, the Node B shall include in the *E-DCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each E-DCH MAC-d flow of the RL.]

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be specified for only one of the DCHs in the set of co-ordinated DCHs [FDD - where the *Transport Bearer Not Requested Indicator* IE was not included].

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

## [TDD - DSCH(s)]:

[TDD - If the *DSCH Information* IE is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *DSCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DSCH.]

[TDD - The Node B shall include in the *DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

## [TDD - USCH(s)]:

[TDD - If the *USCH Information* IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *USCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the USCH.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the *TNL QoS* IE in the *USCH Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD -If the USCH Information IE is present, the Node B shall include in the USCH Information Response IE in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

#### HS-DSCH:

If the HS-DSCH Information IE is present in the RADIO LINK SETUP REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.

- The Node B shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message. [FDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.
- If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- If the RADIO LINK SETUP REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK SETUP REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK SETUP REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this

case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the HS-SICH SIR Target IE in the HS-DSCH Information IE, the Node B shall use this value to determine the HS-SICH SIR Target. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK SETUP REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD If the *TSN-Length* IE is included in the *HS-DSCH TDD Information* IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK SETUP REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UsedFrequency* IE in the *HS-SCCH Specific Information Response LCR* IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UARFCN* IE in the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the RADIO LINK SETUP RESPONSE message.]

## [FDD - E-DCH]:

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10].]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in [10].]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK SETUP REQUEST message:]

- [FDD The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *HARQ Process Allocation For* 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH FDD Information* IE for an E-DCH MAC-d flow, then if the *Transport Bearer Not Requested Indicator* IE is not included for this E-DCH MAC-d flow, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. The Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
  - [FDD if the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include in the RADIO LINK SETUP RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]

- [FDD if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related reordering queue.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" the Node B shall assume scheduled grants being configured for the concerned E-DCH MAC-d flow.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B]
  - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message.]
  - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK SETUP RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

# [FDD - E-DCH - HS-DSCH]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the DCH Indicator For E-DCH-HSDPA Operation IE, then the Node B shall ignore the DCH Information IE in the RADIO LINK SETUP REQUEST message.]

# [TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - *E-DCH Information* IE] [1.28Mcps TDD - *E-DCH Information* 1.28Mcps IE][7.68Mcps TDD - *E-DCH Information* 7.68Mcps IE]is present in the RADIO LINK SETUP REQUEST message:]

- [TDD The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the *E*-*DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]

- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK SETUP REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps *E-DCH Non-scheduled Grant Information TDD* IE] [1.28Mcps *E-DCH Non-scheduled Grant Information TDD* IE] [1.28Mcps *E-DCH Non-scheduled Grant Information TDD* IE] [1.28Mcps *E-DCH Non-scheduled Grant Information TDD* IE] [7.68Mcps *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE], if included, for the related resource allocation operation.]
- [TDD If in the RADIO LINK SETUP REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *MAC-es Maximum Bit Rate LCR* in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH TDD* Maximum Bitrate 7.68Mcps IE in the *E-DCH TDD Information* 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the E-DCH Processing Overload Level IE in the [3.84Mcps TDD - E-DCH TDD Information IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE][1.28Mcps TDD - E-DCH TDD Information LCR IE], then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Power Offset for* Scheduling Info IE in the [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information* 7.68Mcps IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *Maximum Number* of *Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in the *E-DCH TDD Information LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [3.84Mcps TDD and 7.68Mcps TDD The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s), [1.28Mcps E-HICHs] assigned in the *E-DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

## **Physical Channels Handling:**

#### [FDD - Compressed Mode]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or the Node B Communication Context is deleted.]

[FDD - If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to "SF/2" in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the Active Pattern Sequence Information IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE for the Transmission Gap Pattern Sequence.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shallnot transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing]

#### [FDD - DL Code Information]:

[FDD - When more than one DL DPDCH is assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

#### [TDD - PDSCH RL ID]:

[TDD - If the *PDSCH RL ID* IE is included in RADIO LINK SETUP REQUEST message, the Node B shall use the PDSCH RL ID as an identifier for the PDSCH and/or PUSCH in this radio link.]

#### [FDD - Phase Reference Handling]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH shall not be used", the Node B shall assume that the UE is not using the Primary CPICH for channel estimation. If the RADIO LINK SETUP REQUEST message does not include the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE or includes the *Primary CPICH Usage For Channel Estimation* IE and has the value "Primary CPICH may be used", the Node B shall assume that the UE may use the Primary CPICH for channel estimation.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Secondary CPICH Information* IE, the Node B shall assume that the UE may use the Secondary CPICH indicated by the *Common Physical Channel ID* IE for channel estimation.]

## General:

[FDD - If the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD - If the received *Limited Power Increase* IE is set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the *TDD TPC DL Step Size* IE of the lowest numbered DL CCTrCH whose *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

# [FDD - DPCH Handling]:

[FDD - If the *UL DPDCH Indicator For E-DCH Operation* IE is set to "UL DPDCH not present", the *Min UL Channelisation Code Length* IE, the *Puncture Limit* IE and the *TFCS* IE within the *UL DPCH Information* IE shall be ignored and no UL DPDCH resources shall be allocated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL DPCH Information* IE, then the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink, i.e. with a DL DPCCH and a DL DPDCH.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F*-DPCH Information IE, then the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink, i.e. with transmission of only the TPC field.]

#### [FDD - Continuous Packet Connectivity Handling]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information* IE, then:]

- [FDD The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectivity HS-SCCH less operation according to [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK SETUP RESPONSE message.]

#### **Radio Link Handling:**

#### [FDD - Transmit Diversity]:

[FDD - When the *Diversity Mode* IE is set to "*STTD*" or "*Closedloop mode1*", the Node B shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indication* IE]

## **DL Power Control:**

[FDD - The Node B shall start any DL transmission using the initial DL power specified in the message on each DL DPCH or on the F-DPCH of the RL until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message and be prepared that the DPC mode may be changed during the lifetime of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall start any DL transmission on each DCH type CCTrCH using the initial CCTrCH DL power, as determined above, on each DL DPCH and on each Time Slot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the maximum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the minimum DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - The Node B shall determine the initial DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the Initial DL Power and ignore the *DL Time Slot ISCP info LCR* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX

power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DCH type CCTrCH using the initial DL power, as determined above, on each DL DPCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[1.28Mcps TDD - The Node B shall determine the initial power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, and the *DL Time Slot ISCP Info LCR* IE, included in the *RL Information* IE, are included then the Node B shall use that power for the PDSCH and ignore the *Initial DL Transmission Power* IE included in the *RL Information* IE, otherwise the initial DL Power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DSCH type CCTrCH using the initial DL power, as determined above, on each DL PDSCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE.]

[1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE.]

[3.84Mcps TDD and 7.68Mcps TDD - If the *DL Time Slot ISCP Info* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[FDD - If the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.7, using the *DL Power Balancing Information* IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P<sub>init</sub>* shall be set to the power level indicated by the *Initial DL Transmission Power* IE.]

[FDD - If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

## [1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

## [1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK SETUP REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

## General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to subclause 4.3.2.4 in [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

# [FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern* 01 Count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD - The UL out-of-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK SETUP RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

#### **Response Message:**

If the RLs are successfully established, the Node B shall and respond with a RADIO LINK SETUP RESPONSE message.

After sending the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

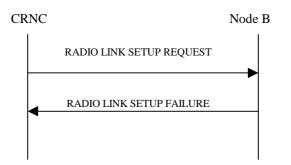
For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:

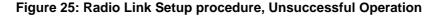
- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD start transmission on the new RL immediately as specified in [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the *Activation CFN* IE.]
  - [TDD start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]

# 8.2.17.3 Unsuccessful Operation





If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. In this case, the Node B shall include the *Communication Control Port Id* IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the *HS-DSCH FDD Information Response* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are as follows:

### **Radio Network Layer Cause:**

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported

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- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- [FDD DPC mode change not supported]
- Delayed Activation not supported
- F-DPCH not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available].
- [FDD TX diversity for MIMO UE on DL Control Channels not available]

#### **Transport Layer Cause:**

- Transport Resources Unavailable

## **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.17.4 Abnormal Conditions

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE or *RL Specific E-DCH Information* IE included in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must" [FDD - or the RL is combined with an E-DCH RL previously listed in the RADIO LINK SETUP RESPONSE message], the Node B shall regard the Radio Link Setup procedure as failed and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an *HS-PDSCH RL-ID* IE not referring to one of the radio links to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", and if the *First RLS indicator* IE is set to "not first RLS", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, which activates a transmission gap pattern sequence with an SF/2 downlink compressed mode method, and if the concerned NodeB Communication Context is configured to use DPCH in downlink and the Transmission Gap Pattern Sequence Code Information is not available for any Radio Link, the NodeB shall reject the Radio Link Setup procedure using the RADIO LINK SETUP FAILURE message with the cause value "Invalid CM Settings".]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" and doesn"t include the *Secondary CPICH Information* IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *E-DCH RL Indication* IE set to "E-DCH", but does not contain the *E-DCH FDD Information* IE, or if the message contains the *E-DCH FDD Information* IE, but does not contain the *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *Serving E-DCH RL* IE but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not configured to be in the same cell then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.] [FDD - If the RADIO LINK SETUP REQUEST message contains the *E-DPCH Information* IE but does not contain the *UL DPDCH Indicator For E-DCH Operation* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Serving Cell Change CFN* IE, but neither the *Serving E-DCH RL* IE nor *HS-DSCH Information* IE is included, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH, but does not contain the *Unidirectional DCH indicator* IE set to "Uplink DCH only" in the *DCH Specific Info* IE for the DCH, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the *UARFCN* IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure by sending the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For the cell in which only one frequency is configured, if the UARFCN IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains the UL DPCCH Slot Format set to "4" but does not contain the F-DPCH Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the *UL DPCH Information* IE in the RADIO LINK SETUP REQUEST message contains the *UL DPCCH Slot Format* set to "0" or "2" and the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains Diversity Mode IE set to "Closed loop mode 1" and UL DPCCH Slot Format not set to "2" or "3", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the *MIMO Activation Indicator* IE and/or *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", but does not contain the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with RL which the transport bearer is configured to be established for the DCH, previously listed in the RADIO LINK SETUP RESPONSE message in the Node B, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

# 8.2.18 Physical Shared Channel Reconfiguration

# 8.2.18.1 General

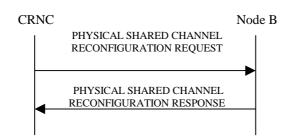
This procedure is used to assign HS-DSCH related resources to the Node B.

[TDD - This procedure is also used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.

- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.]

This procedure is also used to assign E-DCH related resources to the Node B.

# 8.2.18.2 Successful Operation



# Figure 26: Physical Shared Channel Reconfiguration, Successful Operation

The procedure is initiated with a PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall activate the new configuration at the head boundary of the SFN according to the parameters given in the message.

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an *SFN* IE, the Node B shall activate the new configuration at the head boundary of that specified SFN. If no *SFN* IE is included Node B shall activate the new configuration immediately.

# **E-DCH and HS-DSCH Resources:**

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH* and *E-HICH Total Power* IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell. If a value has never been set or if the value of the *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH* and *E-HICH Total Power* IE is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCCH, *E-AGCH*, *E-RGCH* and *E-HICH* total power for HS-PDSCH, HS-SCH and *E-HICH* total power for HS-PDSCH, HS-SCH and *E-HICH* total power for HS-PDSCH and *E-HICH* total power fo

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH And E-HICH Total Power* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell portion indicated by *Cell Portion ID* IE. If a value has never been set or if the value of the *HS-PDSCH*, *HS-SCCH*, *E-AGCH*, *E-RGCH And E-HICH Total Power* IE for the cell portion is equal to or greater than the maximum transmission power of the cell portion, the Node B may use all unused power for HS-PDSCH, HS-SCCH and E-AGCH, E-RGCH and E-AGCH, E-RGCH and E-HICH codes.]

# **HS-DSCH Resources:**

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH And HS-SCCH Scrambling Code* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE, the Node B shall:

- if the Number Of HS-PDSCH Codes IE is set to "0", delete any existing HS-PDSCH resources from the cell.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell, use this list as the range of codes for HS-PDSCH channels.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE, the Node B shall:

- If the *HS-SCCH FDD Code Information* IE contains no codes, delete any existing HS-SCCH resources from the cell.

- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH* and *HS-SCCH Total Power* IE for a particular timeslot, the Node B shall not exceed this maximum transmission power on all HS-PDSCH and HS-SCCH codes in that timeslot. If a value has never been set for that timeslot or if the value of the *HS-PDSCH and HS-SCCH Total Power* IE for that timeslot is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power in that timeslot for HS-PDSCH and HS-SCCH codes.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH TDD Information* IE, the Node B shall:

- If the HS-PDSCH TDD Information IE contains no [3.84 Mcps TDD DL Timeslot and Code Information IE]
   [1.28 Mcps TDD DL Timeslot and Code Information LCR per UARFCN IE]
   [7.68 Mcps TDD DL Timeslot and Code Information 7.68Mcps IE], delete any existing HS-PDSCH resources from the cell.
- If the HS-PDSCH TDD Information IE contains [3.84 Mcps TDD DL Timeslot and Code Information IE] [1.28 Mcps TDD DL Timeslot and Code Information LCR IE] [7.68 Mcps TDD DL Timeslot and Code Information 7.68Mcps IE] and HS-PDSCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for HS-PDSCH channels.
- If the *HS-PDSCH TDD Information* IE contains [3.84 Mcps TDD *DL Timeslot and Code Information* IE] [1.28 Mcps TDD *DL Timeslot and Code Information LCR* IE] [7.68 Mcps TDD *DL Timeslot and Code Information 7.68Mcps* IE] and HS-PDSCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for HS-PDSCH channels.]
- [1.28Mcps TDD If the *HS-PDSCH TDD Information* IE contains any *DL Timeslot and Code Information LCR per UARFCN* IE and HS-PDSCH resources are not currently configured on the indicated frequency within the cell, use this IE as the list of frequency / timeslots / codes for HS-PDSCH channels on the frequency, the HSDPA resources on other frequency shall remain unchanged.]
- [1.28Mcps TDD If the *HS-PDSCH TDD Information* IE contains any *DL Timeslot and Code Information LCR per UARFCN* IE and HS-PDSCH resources are currently configured on the indicated frequency within the cell, the current list of frequency / timeslots / codes shall be replaced with this new list of frequency / timeslots / codes for HS-PDSCH channels on this frequency, the HSDPA resources on other frequency/frequencies shall remain unchanged.]
- [1.28Mcps TDD If the *DL Timeslot and Code Information LCR per UARFCN* IE contains no *DL Timeslot and Code Information LCR* IE but contains *UARFCN* IE, the existing HS-PDSCH resources on the frequency indicated by the *UARFCN* IE shall be deleted, the HSDPA resources on other frequency/frequencies shall remain unchanged.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Add to HS-SCCH Resource Pool* IE, the Node B shall add this resource to the HS-SCCH resource pool to be used to assign HS-SCCH sets.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any of [3.84Mcps TDD - *TDD Channelisation Code* IE, *Midamble Shift and Burst Type* IE, *Time Slot* IE], [1.28Mcps TDD - *First TDD Channelisation Code* IE, *Second TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *TDD Channelisation Code* IE], [7.68Mcps TDD - *TDD Channelisation Code* 7.68Mcps IE, *Midamble Shift and Burst Type* 7.68Mcps IE, *Time Slot* IE], for either HS-SCCH or HS-SICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any *UARFCN* IEs related to HS-SCCH or HS-SICH channels, the Node B shall apply these configurations on the new frequency, otherwise the old frequency is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes the *HS-SCCH Maximum Power* IE, the Node B shall apply this value for the specified HS-SCCH code otherwise the old value is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from HS-SCCH Resource Pool* IEs, the Node B shall delete these resources from the HS-SCCH resource pool.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:

- if the *Number Of HS-PDSCH Codes* IE is set to "0", delete any existing HS-PDSCH resources from the cell portion indicated by *Cell Portion* ID IE.
- if the Number Of HS-PDSCH Codes IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell portion indicated by Cell Portion ID IE, use this list as the range of codes for HS-PDSCH channels.
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:

- If the *HS-SCCH FDD Code Information* IE contains no codes, delete any existing HS-SCCH resources from the cell portion indicated by *Cell Portion ID* IE.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current list of codes with this new list of codes for HS-SCCH channels.]

#### [FDD - Enhanced Cell\_FACH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Common System Information* IE, then the Node B shall:

- If the HS-DSCH Common Information IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
  - If the *Discard Timer* IE is included in the *Priority Queue Information for Enhanced FACH* IE, then the Node B shall use this information to discard out-of-date MAC-ehs SDUs from the related HSDPA Priority Queue.
  - If the FACH Measurement Occasion Cycle Length Coefficient IE is included in the HS-DSCH Common Information IE, then the Node B shall use this information for MAC-hs scheduling decisions.
  - The Node B shall allocate HS-SCCH codes and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
  - The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
- If the *Common MAC Flow Specific Information* IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:

-- If the common MAC flow indicated by the Common MAC Flow ID exsits in the NodeB, then the NodeB shall apply the parameters to modify this common MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the common MAC flow.

If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Common MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Common MAC flow or Common MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
- The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every Common MAC flow being established.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message for every Common MAC flow being established, if the Node B allows the CRNC to start transmission of MAC-c PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the *Common MAC Flow Priority Queue Information* IE is included in the *Common MAC Flow Specific Information* IE, the Node B shall use the information for configuring HSDPA Priority Queues.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common MAC Flows To Delete* IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

# [FDD - Enhanced Cell/URA\_PCH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Paging System Information* IE, then the Node B shall:

- If the Paging MAC flow indicated by the Paging MAC Flow ID exsits in the NodeB, then the NodeB shall apply the parameters to modify this Paging MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the Paging MAC flow.
- If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Paging MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Paging MAC flow or Paging MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.
- If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete* IEs, then the Node B shall use this information to delete the indicated Paging MAC flows. When a Paging MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Paging MAC Flows To Delete* IE requesting the deletion of all remaining Paging MAC flows, then the Node B shall delete the HS-DSCH paging system configuration and release the resources for enhanced PCH.]

# [FDD - E-DCH Resources]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH, E-RGCH and E-HICH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH FDD Code Information* IE, the Node B shall:]

- [FDD If the *E-AGCH FDD Code Information* IE contains no codes, delete any existing E-AGCH resources from the cell.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are not currently configured in the cell, use this list of codes as the list of codes for E-AGCH channels.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-RGCH/E-HICH FDD Code Information* IE, the Node B shall:]

- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Maximum Target Received Total Wide Band Power* IE, the Node B shall use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Reference Received Total Wide Band Power* IE, the Node B may use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Target Nonserving E-DCH to Total E-DCH Power Ratio* IE, the Node B shall store this value and use this value for E-DCH scheduling by controlling the ratio of received E-DCH wide band power from non-serving UEs to the total received E-DCH power.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH and E-HICH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:]

- [FDD If the *E*-AGCH FDD Code Information IE contains no codes, delete any existing E-AGCH resources from the cell portion indicated by *Cell Portion* ID IE.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are not currently configured in the cell portion indicated by *Cell Portion* ID IE, use this list of codes as the list of codes for E-AGCH channels.]
- [FDD If the *E-AGCH FDD Code Information* IE contains one or more codes and E-AGCH resources are currently configured in the cell portion indicated by *Cell Portion* ID IE, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-RGCH/E-HICH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:]

- [FDD - If the *E-RGCH/E-HICH FDD Code Information* IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell portion indicated by *Cell Portion ID* IE.]

- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]
- [FDD If the *E-RGCH/E-HICH FDD Code Information* IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

## [TDD - E-DCH Resources]:

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information* IE, the Node B shall:

- If the *E-PUCH Information* IE contains no *E-PUCH Timeslot Information* IE, then the Node B shall delete any existing E-DCH resources from the cell.
- If the *E-PUCH Information* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCH channels.
- If the *E-PUCH Information* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCH channels.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information 1.28Mcps* IE, the Node B shall:

- If the *E-PUCH Information 1.28Mcps* IE contains no *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE, then the Node B shall delete any existing E-DCH resources from the cell.
- For a single-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for E-PUCH channels.
- For a single-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for E-PUCH channels.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are not currently configured on the indicated frequency in the cell, use this IE as the list of frequency / timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE and E-DCH resources are currently configured on the indicated frequency in the cell, replace the current list of frequency / timeslots / codes with this new list of timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.
- For a multi-frequency cell, if the *E-PUCH Information 1.28Mcps* IE contains *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE but only *UARFCN* IE is included, then the Node B shall delete the existing E-DCH resources on the frequency indicated by the *UARFCN* IE from the cell, the E-DCH resources on other frequency shall remain unchanged.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-PUCH Information 7.68Mcps* IE, the Node B shall:

- If the *E-PUCH Information 7.68Mcps* IE contains no *E-PUCH Timeslot Information* IE, then the Node B shall delete any existing E-DCH resources from the cell.
- If the *E-PUCH Information 7.68Mcps* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCH channels.
- If the *E-PUCH Information 7.68Mcps* IE contains *E-PUCH Timeslot Information* IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes [3.84Mcps TDD - Add to E-AGCH Resource Pool IE] [1.28Mcps TDD - Add to E-AGCH Resource Pool 1.28Mcps IE] [7.68Mcps

TDD - Add to E-AGCH Resource Pool 7.68Mcps IE], the Node B shall add this resource to the E-AGCH resource pool to be used to assign E-AGCH sets.]

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool* IEs and includes any of *TDD Channelisation Code* IE, *Midamble Shift and Burst Type* IE, *Time Slot* IE, for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool 1.28Mcps* IEs and includes any of *First TDD Channelisation Code* IE, *Second TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *UARFCN* IE for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-AGCH Resource Pool 7.68Mcps* IEs and includes any of *TDD Channelisation Code 7.68Mcps* IE, *Midamble Shift and Burst Type 7.68Mcps* IE, *Time Slot* IE, for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any [3.84Mcps TDD - *Modify E-AGCH Resource Pool* IEs] [1.28Mcps - *Modify E-AGCH Resource Pool* 1.28Mcps IEs][7.68Mcps TDD - *Modify E-AGCH Resource Pool* 7.68Mcps IEs]and includes the *Maximum E-AGCH Power* IE, the Node B shall apply this value for the specified E-AGCH code otherwise the old value is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from E-AGCH Resource Pool* IEs, the Node B shall delete these resources from the E-AGCH resource pool.]

[3.84Mcps TDD and 7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the [3.84Mcps TDD - *E*-HICH Information IE] [7.68Mcps TDD - *E*-HICH Information 7.68Mcps IE], the Node B shall configure the E-HICH according to the parameters.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Add to E-HICH Resource Pool 1.28Mcps* IE, the Node B shall add this resource to the E-HICH resource pool to be used to assign Scheduled or Non-scheduled E-HICH sets.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-HICH Resource Pool 1.28Mcps* IEs and includes any of *E-HICH Type* IE, *TDD Channelisation Code* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE, *UARFCN* IE for E-HICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify E-HICH Resource Pool 1.28Mcps* IEs and includes the *Maximum E-HICH Power* IE, the Node B shall apply this value for the specified E-HICH code otherwise the old value is still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from E-HICH Resource Pool 1.28Mcps* IEs, the Node B shall delete these resources from the E-HICH resource pool.]

[3.84Mcps TDD and 7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Maximum Generated Received Total Wide Band Power in Other Cells* IE, the Node B shall use this value to control E-DCH scheduling.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Maximum Target Received Total Wide Band Power LCR* IE, the Node B shall use this value to control E-DCH scheduling.]

# [TDD - PDSCH/PUSCH Addition]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added, the Node B shall add these new sets to its PDSCH/PUSCH configuration.]

[1.28Mcps TDD - If the *TSTD Indicator* IE is included in *PDSCH To Add Information LCR* IE and is set to "active", the Node B shall activate TSTD diversity for PDSCH transmissions using the specified PDSCH Set that are not beacon

channels [19,21]. If the *TSTD Indicator* IE is set to "not active" or the TSTD Indicator IE is not included in *PDSCH To* Add Information LCR IE, the Node B shall not activate TSTD diversity for the PDSCH Set.]

# [TDD - PDSCH/PUSCH Modification]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be modified, and includes any of [3.84Mcps TDD - *DL/UL Code Information* IE, *Midamble Shift And Burst Type* IE, *Time Slot* IE], [1.28Mcps TDD - *DL/UL Code Information LCR* IE, *Midamble Shift LCR* IE, *Time Slot* IE], [7.68Mcps TDD - *DL/UL Code Information 7.68Mcps* IE, *Midamble Shift And Burst Type 7.68Mcps* IE, *Time Slot* IE], *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI Presence* IE, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

# [TDD - PDSCH/PUSCH Deletion]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be deleted the Node B shall delete these sets from its PDSCH/PUSCH configuration.]

# [1.28Mcps TDD - SYNC\_UL Partition]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *SYNC\_UL Partition Information* IE, the Node B shall store the *E-RUCCH SYNC\_UL codes bitmap* IE used to differentiate the E-DCH random access from the RACH random access according to [21].]

# **Response Message:**

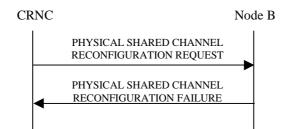
# **HS-DSCH/HS-SCCH Resources:**

In the successful case involving HS-PDSCH or HS-SCCH resources, the Node B shall store the value of *Configuration Generation ID* IE and it shall make these resources available to all the current and future HS-DSCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.

# [TDD - PDSCH/PUSCH Addition/Modification/Deletion]:

[TDD - In the successful case involving PDSCH/PUSCH addition, modification or deletion, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, and shall make these available to all the current and future DSCH and USCH transport channels. The Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.]

# 8.2.18.3 Unsuccessful Operation



# Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Opreration

If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message. The *Cause* IE shall be set to an appropriate value [TDD - either a single general cause value or PDSCH and PUSCH set specific cause values for each set that caused a failure within the *Unsuccessful DL Shared Channel Set* IE for PDSCH sets or *Unsuccessful UL Shared Channel Set* IE for PUSCH sets]. The *Configuration Generation ID* shall not be changed in the Node B.

If the configuration was unsuccessful, the Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message:

[1.28Mcps TDD - For a multi-frequency cell, if the Node B is not able to support all parts of the configuration, in the case the Node B can only support configuration on one or some frequencies, the HSDPA or E-DCH related resources

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on this or these frequencies may be regarded as having successfully been established/reconfigured/removed, the Node B shall reject the HSDPA or E-DCH related configuration on other failed frequencies. The Node B may respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message. The *HS-Cause* IE or *E-Cause* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message may be set to specific cause values for each frequency that caused a HSDPA or E-DCH related configuration failure. If the failure occurs on the HS-PDSCH, HS-SCCH, E-PUCH or E-AGCH resources, the Node B may store the value of the *Configuration Generation ID* IE and it shall make these resources available to all the current and future HS-DSCH or E-DCH transport channels. If the Node B is not able to support the HSDPA or E-DCH related configuration on any frequencies, the *Cause* IE may be set to an appropriate value, which is either a general cause value or specific cause values for each frequency that caused a failure.]

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Cell not available
- Node B Resources unavailable

## **Transport Layer Cause:**

- Transport Resources Unavailable

# **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

# 8.2.18.4 Abnormal Conditions

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains *Add to HS-SCCH Resource Pool* IE, the *Modify HS-SCCH Resource Pool* IE, or the *Delete from HS-SCCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-AGCH Resource Pool* IE, the *Modify E-AGCH Resource Pool* IE, or the *Delete from E-AGCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-AGCH Resource Pool 1.28Mcps* IE, the *Modify E-AGCH Resource Pool 1.28Mcps* IE, or the *Delete from E-AGCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-HICH Resource Pool 1.28Mcps* IE, the *Modify E-HICH Resource Pool 1.28Mcps* IE, or the *Delete from E-HICH Resource Pool 1.28Mcps* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Add to E-AGCH Resource Pool 7.68Mcps* IE, the *Modify E-AGCH Resource Pool 7.68Mcps* IE, or the *Delete from E-AGCH Resource Pool* IE and does not contain the *Configuration Generation ID* the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Configuration Generation ID* IE and does not contain at least one of *Add to HS-SCCH Resource Pool* IE, the *Modify HS-SCCH Resource Pool* IE, [3.84Mcps TDD - the *Add to E-AGCH Resource Pool* IE, the *Modify E-AGCH Resource* 

Pool IE, the Delete from E-AGCH Resource Pool IE,] [1.28Mcps TDD - the Add to E-AGCH Resource Pool 1.28Mcps IE, the Modify E-AGCH Resource Pool 1.28Mcps IE, the Delete from E-AGCH Resource Pool IE, the Add to E-HICH Resource Pool 1.28Mcps IE, the Modify E-HICH Resource Pool 1.28Mcps IE, the Delete from E-HICH Resource Pool 1.28Mcps IE, [7.68Mcps TDD - the Add to E-AGCH Resource Pool 7.68Mcps IE, the Modify E-AGCH Resource Pool 7.68Mcps IE, the Delete from E-AGCH Resource Pool 7.68Mcps IE, the Delete from E-AGCH Resource Pool IE,] or the Delete from HS-SCCH Resource Pool IE the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If neither E-AGCH nor E-HICH/E-RGCH resources are configured in the cell, and if one or more codes are included in the *E-AGCH FDD Code Information* IE and/or *E-RGCH/E-HICH FDD Code Information* IE but the *Maximum Target Received Total Wide Band Power* IE is not included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall send PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE, and the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, and the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-DSCH Common Information* IE and/or *Common MAC Flow Specific Information* IE and if the Priority Queues associated with the same *Common MAC Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *DL Timeslot and Code Information LCR per UARFCN* IE in the *HS-PDSCH TDD Information* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *HS-SCCH Information LCR* IE in the *Add to HS-SCCH Resource Pool* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *HS-SCCH Information LCR* IE in the *Modify HS-SCCH Resource Pool* IE, the HS-SCCH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *E-AGCH Information 1.28Mcps* IE in the *Modify E-AGCH Resource Pool 1.28Mcps* IE, the E-AGCH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *UARFCN* IE in the *E-HICH Information 1.28Mcps* IE in the *Modify E-HICH Resource Pool 1.28Mcps* IE, the E-HICH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *DL Timeslot and Code Information LCR* IE in the *DL Timeslot and Code Information LCR per UARFCN* IE in the *HS-PDSCH TDD Information* IE but contains *UARFCN* IE, and no HS-DSCH resources are configured on the frequency within the cell, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE in the *E-PUCH Information 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *Add to E-AGCH Resource Pool 1.28Mcps* IE, the *Modify E-AGCH Resource Pool 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *UARFCN* IE in the *Add to E-HICH Resource Pool 1.28Mcps* IE, the *Modify E-HICH Resource Pool 1.28Mcps* IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the *E-PUCH Timeslot Information 1.28Mcps* IE in the *E-PUCH Timeslot Information 1.28Mcps per UARFCN* IE in the *E-PUCH Information 1.28Mcps* IE but contains *UARFCN* IE, and no E-DCH resources are configured on the frequency within the cell, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

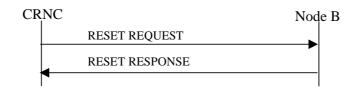
# 8.2.19 Reset

# 8.2.19.1 General

The purpose of the Reset procedure is to align the resources in the CRNC and the Node B in the event of an abnormal failure. The CRNC or the Node B may initiate the procedure.

# 8.2.19.2 Successful Operation

# 8.2.19.2.1 Reset Initiated by the CRNC



# Figure 27A Reset procedure (CRNC to Node B), Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

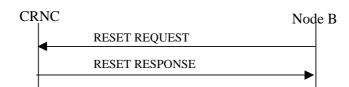
If the *Reset Indicator* IE is set to "Communication Context", the Node B shall remove all the indicated Node B Communication Context (identified by a *Node B Communication Context ID* or a *CRNC Communication Context ID* IE) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to "Communication Control Port", the Node B shall remove all the Node B Communication Contexts controlled via the indicated Communication Control Port(s) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the *Reset Indicator* IE is set to "Node B", the Node B shall remove all the Node B Communication Contexts within the Node B and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

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# 8.2.19.2.2 Reset Initiated by the Node B



# Figure 27B Reset procedure (Node B to CRNC ), Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

If the *Reset Indicator* IE is set to "Communication Context", for all indicated CRNC Communication Contexts (indicated by a *CRNC Communication Context ID* or a *Node B Communication Context ID* IE), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the indicated CRNC Communication Contexts. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to the Node B.

If the *Reset Indicator* IE is set to "Communication Control Port", for all the CRNC Communication Contexts controlled via the indicated Communication Control Port(s), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts controlled via the indicated Communication Control Port(s). After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

If the *Reset Indicator* IE is set to the "Node B", for all the CRNC Communication Contexts related to this Node B, the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts related to this Node B. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

# 8.2.19.3 Unsuccessful Operation

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# 8.2.19.4 Abnormal Conditions

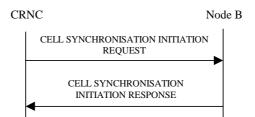
If the RESET REQUEST message is received any ongoing procedure related to a CRNC Communication Context in the CRNC or Node B Communication Context in the Node B indicated (explicitly or implicitly) in the message shall be aborted.

# 8.2.20 Cell Synchronisation Initiation [TDD]

# 8.2.20.1 General

This procedure is used by a CRNC to request the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts sent in the PRACH time slots] [1.28Mcps TDD - SYNC\_DL code sent in the DwPTS] and/or to start measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL code] in a Node B.

# 8.2.20.2 Successful Operation



# Figure 27C Cell Synchronisation Initiation procedure, Successful Operation

The procedure is initiated with a CELL SYNCHRONISATION INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested transmission according to the parameters given in the request and start the measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL code] if requested.

# [3.84Mcps TDD - Cell Sync Burst Transmission Initiation] [1.28Mcps TDD - SYNC\_DL Code Transmission Initiation LCR]:

When the [3.84Mcps TDD - Cell Sync Burst Transmission Initiation Information] [1.28Mcps TDD - SYNC\_DL Code Transmission Initiation Information LCR] is present, the Node B shall configure the transmission of the cell synchronisation burst according to the parameters given in the CELL SYNCHRONISATION INITIATION REQUEST message. The *SFN* IE indicates the frame number when the cell shall start transmitting cell synchronisation bursts.

[3.84Mcps TDD - When the Cell Sync Burst Transmission Initiation Information is present and the "Frequency Acquisition" is indicated within the *Synchronisation Report Type* IE, the Node B shall first perform only frequency locking on received cell synchronisation bursts. Transmission of the indicated cell synchronisation bursts shall be started only if the frequency locking is performed successfully and "Frequency Acquisition completed" is reported to the RNC.]

# [3.84Mcps TDD - Cell Sync Burst Measurement characteristics] [1.28Mcps TDD - SYNC\_DL Code Measurement characteristics LCR]:

When the [3.84Mcps TDD - Cell Sync Burst Measurement Initiation Information][1.28Mcps TDD - SYNC\_DL Code Measurement Initiation Information LCR] is present, the Node B shall initiate measurements on the indicated cell synchronisation burst.

If the *SFN* IE is present, the Node B shall after measurement of the indicated [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] adjust the frame number of the indicated cell according to the SFN of the CELL SYNCHRONISATION INITIATION REQUEST message. This adjustment shall only apply to the late entrant cell at the late entrant phase.

## Synchronisation Report characteristics:

The *Synchronisation Report Characteristics* IE indicates how the reporting of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurement shall be performed. Whenever the Cell Synchronisation Initiation procedure is initiated, only [3.84Mcps TDD - the "Frequency Acquisition completed" or] "Frame related" report characteristics type shall apply.

[3.84Mcps TDD - If the *Synchronisation Report characteristics type* IE is set to "Frequency Acquisition completed", the Node B shall signal completion of frequency acquisition to the RNC when locking is completed.]

If the *Synchronisation Report characteristics type* IE is set to "Frame related", the Node B shall report the result of the cell synchronisation burst measurement after every measured frame.

[3.84Mcps TDD - If the *Cell Sync Burst Arrival Time* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the *Cell Sync Burst Timing Threshold* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

[1.28Mcps TDD - If the SYNC\_DL Code ID Arrival Time IE is included in the SYNC\_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC\_DL Code of a neighbouring cell is expected.]

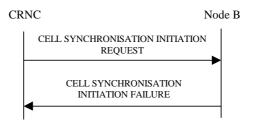
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[1.28Mcps TDD - If the *SYNC\_DL Code ID Timing Threshold* IE is included in the *SYNC\_DL Code Information LCR* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

## **Response message:**

If the Node B was able to initiate the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] transmission and/or measurement requested by the CRNC it shall respond with the CELL SYNCHRONISATION INITIATION RESPONSE message sent over the Node B Control Port.

# 8.2.20.3 Unsuccessful Operation



# Figure 27D Cell Synchronisation Initiation procedure, Unsuccessful Operation

If the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Code] cannot be initiated, the Node B shall send a CELL SYNCHRONISATION INITIATION FAILURE message over the Node B control port. The message shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

# **Radio Network Layer Cause:**

- Cell Synchronisation not supported
- Power level not supported
- Measurement Temporarily not Available
- Frequency Acquisition not supported

#### Miscellaneous Cause:

- O&M Intervention
- HW failure

# 8.2.20.4 Abnormal Conditions

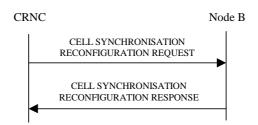
# 8.2.21 Cell Synchronisation Reconfiguration [TDD]

# 8.2.21.1 General

This procedure is used by a CRNC to reconfigure the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Code] and/or to reconfigure measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Code] in a Node B.

### 8.2.21.2 Successful Operation

### 8.2.21.2.1 General



#### Figure 27E Cell Synchronisation Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL SYNCHRONISATION RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] transmission and/or measurements according to the parameters given in the request.

### 8.2.21.2.2 [3.84Mcps TDD - Cell Sync Burst Schedule]

Within the CELL SYNCHRONISATION RECONFIGURATION REQUEST message first the schedule for the steady state phase is fixed. I.e. the number of cycles per SFN period is defined with the same schedule. For each cycle, the number of repetitions is defined according to following equations:

Cycle length: 4096 / value of Number Of Cycles Per SFN Period IE

Repetition period: Cycle length / value of Number Of Repetitions Per Cycle Period IE

Cell Sync Frame number is calculated by: SFN = floor((k-1) \* Cycle length + (i-1)\* Repetition period)

 $k = \{1, 2, 3, .. Number of cycle per SFN period\}$ 

 $i = \{1, 2, 3, .. \text{ Cell Sync Frame number within cycle period}\}$ 

### 8.2.21.2.3 [1.28Mcps TDD - SYNC\_DL Code Schedule]

Within the CELL SYNCHRONISATION RECONFIGURATION REQUEST message first the schedule for the steady state phase is fixed. The "schedule" includes

- the list of frame numbers SFN within the SFN period where SYNC\_DL Code transmission or reception takes place, i.e. the "synchronisation frames", and
- the associated actions (SYNC\_DL Code transmission, reception, averaging, reporting etc) to be performed for synchronisation purpose by the Node B at each of these SFNs.

Within the synchronisation frames, only the first subframe shall be used for sending or receiving a SYNC\_DL Code in the DwPTS while in the second subframe, normal operation continues.

The synchronisation schedule includes the option of averaging of measured correlation results within the Node B over a sequence of measurements, for increasing the reliability of the Time of Arrival measurement obtained from the correlation results. For this purpose, the concept of "subcycles" has been introduced: Each Synchronisation Cycle is devided into "subcycles" where in each subcycle, the same set of SYNC\_DL transmissions and receptions is performed, and averaging takes place over all the subcycles within a Synchronisation Cycle. Since the list of actions (transmission, measurements etc) is the same in each subcycle, and the subcycles are repeated to make up a cycle, and the cycles make up an SFN period, the full list of actions is derived by the actions specified for a subcycle.

The full list of SFNs which make up the synchronisation schedule within the SFN period are calculated in Node B and CRNC autonomously based on the following parameters included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message: "Number of cycles per SFN period", "Number of subcycles per cycle period", and "Number of repetitions per cycles period", along the following equations:

Cycle length: 4096 / value of Number Of Cycles Per SFN Period IE

Subcycle length: Cycle length / value of Number Of Subcycles Per Cycle Period IE

Repetition period: Subcycle length / value of Number Of Repetitions Per Cycle Period IE

SFN = floor((k-1) \* Cycle length + (j-1)\*Subcycle length + (i-1)\* Repetition period)

 $k = \{1, 2, 3, .. Number of cycle per SFN period\}$ 

 $j = \{1, 2, 3, ... Number of subcycles per cycle\}$ 

 $i = \{1, 2, 3, ... Number of repetitions per cycle period\}$ 

Note that if the *Number Of Subcycles Per Cycle* IE is equal to 1, then the subcycles are identical to the "Synchronisation Cycles".

If the *Number Of Subcycles Per Cycle* IE is included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD] message, then the Node B shall apply this number for dividing the Synchronisation Cycles in Subcycles. If the IE is not present, then the Node B shall assume that there is one subcycle per synchronisation cycle only, which is identical to the synchronisation cycle.

Averaging is performed as follows:

- From each SYNC\_DL code being received according to the schedule, the Node B shall calculate a "correlation function" by matching the received data with the respective expected code.
- Therefore the set of measurements within one subcycle provides a set of "correlation functions".
- The set of correlation functions of the first subcycle within a synchronisation cycle is stored in an averaging memory.
- The sets of correlation functions of the subsequent subcycles within a synchronisation cycle are combined with the available contents of the "averaging memory", to produce an average over all the sets of correlation functions within a synchronisation cycle.
- At the end of a synchronisation cycle, the Time-of-Arrival measurements for that synchronisation cycle are obtained by evaluating the final set of correlation functions.

These Time-of-Arrival measurements, together with associated SIR values obtained from the averaged correlation functions, are included in a Measurement Report to the CRNC, according to a measurement reporting plan.

In addition, the Time-of-Arrival measurements may optionally be used for autonomous self-adjustment of the timing of the respective cell.

# 8.2.21.2.4 [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration] [1.28Mcps TDD - SYNC\_DL Code Transmission Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration Information] [1.28Mcps TDD - SYNC\_DL Code Transmission Reconfiguration Information LCR] is present, the Node B shall reconfigure the transmission of the [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - SYNC\_DL Code] according to the parameters given in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message.

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Cell Sync Burst Code* IE, the Node B shall reconfigure the synchronisation code in the cell according to the *Cell Sync Burst Code* IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Cell Sync Burst Code Shift* IE, the Node B shall reconfigure the synchronisation code shift in the cell according to the *Cell Sync Burst Code Shift* IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *DL Transmission Power* IE, the Node B shall reconfigure the DL transmission power of the cell synchronisation burst in the cell according to the *DL Transmission Power* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *DwPCH Power* IE, the Node B shall store the DwPCH power according to the *DwPCH Power* IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the *Sync\_DL Code ID* IE, the Node B shall reconfigure the SYNC\_DL Code in the cell according to the *Sync\_DL Code ID* IE value.]

## 8.2.21.2.5 [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration] [1.28Mcps TDD - SYNC\_DL Code Measurement Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration Information] [1.28Mcps TDD - Cell SYNC\_DL Code Measurement Reconfiguration Information LCR] is present, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurements according the parameters given in the message.

If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the [3.84Mcps TDD -Cell Sync Burst Measurement Information] [1.28Mcps TDD - SYNC\_DL Code Measurement Information LCR], the measurements shall apply on the individual [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Codes] on the requested Sync Frame number.

[1.28Mcps TDD - When the *Propagation Delay Compensation* IE is present in the SYNC\_DL Code Measurement Information LCR, the Node B shall, if supported, perform the following functions: (1) use the respective SYNC\_DL measurement (after potential averaging) to perform the self-adjustment of the respective cell's timing at the end of a Synchronisation Cycle; (2) include the *Accumulated Clock Update* IE in the CELL SYNCHRONISATION REPORT message, to report the total accumulated amount of timing adjustments since the last report to the RNC. This Accumulated Clock Update value shall also include the adjustments which may have been performed by explicit order from the CRNC in the CELL SYNCHRONISATION ADJUSTMENT REQUEST message. The times for selfadjustment at the end of a synchronisation cycle shall be independent from the measurement reporting characteristics; the Accumulated Adjustment values shall be included in the CELL SYNCHRONISATION REPORT messages without influencing the frequency of measurement reporting.]

If the *Synchronisation Report Type* IE is provided, the measurement reporting shall apply according the parameter given in the message.

#### Synchronisation Report characteristics:

The *Synchronisation Report Characteristics* IE indicates how the reporting of the cell synchronisation burst measurement shall be performed.

If the *Synchronisation Report Characteristics Type* IE is set to "Frame related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurement after every measured frame.

If the *Synchronisation Report Characteristics Type* IE is set to "SFN period related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurements after every SFN period.

If the *Synchronisation Report Characteristics Type* IE is set to "Cycle length related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurements after every cycle length within the SFN period.

If the *Synchronisation Report Characteristics Type* IE is set to "Threshold exceeding", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurement when the [3.84Mcps TDD - Cell Synchronisation Burst timing] [1.28Mcps TDD - SYNC\_DL Code timing] rises or falls more than the requested threshold value compared to the arrival time in synchronised state which is represented by the [3.84Mcps TDD - *Cell Sync Burst Arrival Time* IE] [1.28Mcps TDD - *SYNC\_DL Code ID Arrival Time* IE].

[3.84Mcps TDD - If the *Cell Sync Burst Arrival Time* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the *Cell Sync Burst Timing Threshold* IE is included in the *Cell Sync Burst Information* IE of the *Synchronisation Report Characteristics* IE, the Node B shall use this new threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

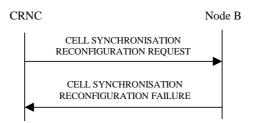
[1.28Mcps TDD - If the SYNC\_DL Code ID Arrival Time IE is included in the SYNC\_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC\_DL Code of a neighbouring cell is expected.]

[1.28Mcps TDD - If the SYNC\_DL Code ID Timing Threshold IE is included in the SYNC\_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

#### **Response message:**

If the Node B was able to reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] transmission and/or measurement requested by the CRNC, it shall respond with the CELL SYNCHRONISATION RECONFIGURATION RESPONSE message sent over the Node B Control Port.

### 8.2.21.3 Unsuccessful Operation



#### Figure 27F Cell Synchronisation Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot reconfigure the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code], the CELL SYNCHRONISATION RECONFIGURATION FAILURE message shall be sent to the CRNC. The message shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Cell Synchronisation not supported
- Power level not supported
- Measurement Temporarily not Available

#### **Miscellaneous Cause:**

- O&M Intervention
- HW failure

### 8.2.21.4 Abnormal Conditions

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## 8.2.22 Cell Synchronisation Reporting [TDD]

### 8.2.22.1 General

This procedure is used by a Node B to report the result of [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] measurements requested by the CRNC with the Cell Synchronisation Initiation or Cell Synchronisation Reconfiguration procedure.

### 8.2.22.2 Successful Operation



#### Figure 27G Cell Synchronisation Reporting procedure, Successful Operation

If the requested synchronisation measurement reporting criteria are met, the Node B shall initiate a Cell Synchronisation Reporting procedure. The CELL SYNCHRONISATION REPORT message shall use the Node B Control Port.

In the steady state phase when several [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Codes] shall be measured per Sync Frame number, the sequence of the reported measured values shall be the same as defined in the Cell Synchronisation Reconfiguration procedure.

[1.28Mcps TDD - The Node B shall, if supported, include the *Accumulated Clock Update* IE in the CELL SYNCHRONISATION REPORT message whenever the CRNC has included at least one instance of the *Propagation Delay Compensation* IE in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message. The *Accumulated Clock Update* IE shall include the accumulated timing adjustment which has been done as commanded by the CRNC, as well as by self-adjustment, since the last *Accumulated Clock Update* IE report.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement defined in [23], the Cell Sync Burst not available shall be reported.

### 8.2.22.3 Abnormal Conditions

### 8.2.23 Cell Synchronisation Termination [TDD]

### 8.2.23.1 General

This procedure is used by the CRNC to terminate a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] transmission or measurement previously requested by the Cell Synchronisation Initiation procedure or Cell Synchronisation Reconfiguration procedure.

### 8.2.23.2 Successful Operation



#### Figure 27H Cell Synchronisation Termination procedure, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate [3.84Mcps TDD - transmission of Cell Synchronisation Bursts or reporting of Cell Synchronisation Burst measurements] [1.28Mcps TDD - transmission of SYNC\_DL Codes or reporting of SYNC\_DL Code measurements] corresponding to the *CSB Transmission ID* IE or *CSB Measurement ID* IE.

### 8.2.23.3 Abnormal Conditions

### 8.2.24 Cell Synchronisation Failure [TDD]

### 8.2.24.1 General

This procedure is used by the Node B to notify the CRNC that a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] transmission or synchronisation measurement procedure can no longer be supported.

### 8.2.24.2 Successful Operation



### Figure 27I Cell Synchronisation Failure procedure, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC\_DL Codes] can no longer be supported.

If the transmission of a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] has failed, then the Node B shall include the *CSB Transmission ID* IE in the CELL SYNCHRONISATION FAILURE INDICATION message to uniquely identify the concerned [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] Transmission.

If the measurement of a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] has failed, then the Node B shall include the *CSB Measurement ID* IE in the CELL SYNCHRONISATION FAILURE INDICATION message to uniquely identify the concerned [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC\_DL Code] Measurement.

### 8.2.24.3 Abnormal Conditions

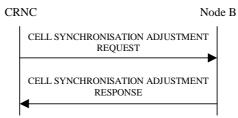
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## 8.2.25 Cell Synchronisation Adjustment [TDD]

8.2.25.1 General

The purpose of Cell Synchronisation Adjustment procedure is to allow the CRNC to adjust the timing of the radio transmission of a cell within a Node B for time alignment.

### 8.2.25.2 Successful Operation



#### Figure 27J Cell Synchronisation Adjustment, Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION ADJUSTMENT REQUEST message sent by the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B adjusts its timing according to the parameters given in the message.

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Frame Adjustment Value* IE the Node B shall apply the frame adjustment in the cell according to the *Frame Adjustment Value* IE value.

[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Timing Adjustment Value* IE the Node B shall apply the timing adjustment in the cell according to the *Timing Adjustment Value* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *Timing Adjustment Value LCR* IE the Node B shall apply the timing adjustment in the cell according to the *Timing Adjustment Value LCR* IE value.]

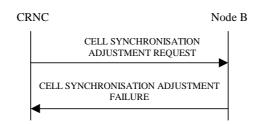
[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *DL Transmission Power* IE, the Node B shall apply the transmission power of the Cell Synchronisation Burst according to the *DL Transmission Power* IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *DwPCH Power* IE, the Node B shall store the DwPCH power according to the *DwPCH Power* IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the *SFN* IE, the Node B shall apply the synchronisation adjustment starting with the SFN number indicated in the message.

When the cell synchronisation adjustment is successfully done by the Node B, the Node B shall respond with a CELL SYNCHRONISATION ADJUSTMENT RESPONSE message.

### 8.2.25.3 Unsuccessful Operation



### Figure 27K Cell Synchronisation Adjustment, Unsuccessful Operation

If the Node B cannot perform the indicated cell synchronisation adjustment due to hardware failure or other problem it shall send the CELL SYNCHRONISATION ADJUSTMENT FAILURE as a response.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Cell Synchronisation Adjustment not supported
- Power level not supported

#### **Miscellaneous Cause**

- O&M Intervention
- HW failure

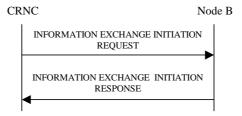
8.2.25.4 Abnormal Conditions

### 8.2.26 Information Exchange Initiation

### 8.2.26.1 General

This procedure is used by a CRNC to request the initiation of information provisioning from a Node B.

### 8.2.26.2 Successful Operation



#### Figure 27L: Information Exchange Initiation procedure, Successful Operation

The procedure is initiated with the INFORMATION EXCHANGE INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall provide the requested information according to the *Information Type Item* IE. Unless specified below, the meaning of the parameters are given in other specifications.

If the *Information Type* IE contains a *GANSS Generic Data* IE, at least one of the *GANSS Navigation Model And Time Recovery, GANSS Time Model GNSS-GNSS, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity, GANSS Data Bit Assistance* IEs shall be present in the *GANSS Generic Data* IE.

- If the *GANSS Generic Data* IE does not contain the *GANSS ID* IE, the Node B shall assume that the corresponding GANSS is "Galileo".

#### **Information Report Characteristics**

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the *Information Report Characteristics* IE is set to "On Demand", the Node B shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to "Periodic", the Node B shall immediately report the requested information and then shall periodically initiate the Information Reporting procedure for all the requested information, with the requested reporting frequency.

If the *Information Report Characteristics* IE is set to "On Modification", the Node B shall immediately report the requested information if available. If the requested information is not available at the moment of receiving the INFORMATION EXCHANGE INITIATION REQUEST message, but expected to become available after some acquisition time, the Node B shall initiate the Information Reporting procedure when the requested information

becomes available. The Node B shall then initiate the Information Reporting procedure in accordance to the following conditions related to the *Information Type* IE:

- 1) If the *Information Type Item* IE is set to "DGPS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IODE.
- 2) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Navigation Model & Time Recovery", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred regarding either the IODC or the list of visible satellites, identified by the *Sat ID* IEs.
- 3) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Ionospheric Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 4) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS UTC Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred in the t<sub>ot</sub> or WN<sub>t</sub> parameter.
- 5) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Almanac", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change in the t<sub>oa</sub> or WN<sub>a</sub> parameter has occurred.
- 6) If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Real-Time Integrity", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- 7) If the *Information Type Item* IE is set to "DGANSS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE in the *Information Threshold* IE or a change has occurred in the IOD.
- 8) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Navigation Model And Time Recovery* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the *Sat ID* IEs.
- 9) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Ionospheric Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- 10) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Time Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
- 11)If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS UTC Model* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the t<sub>ot</sub> or WN<sub>t</sub> parameter.
- 12) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Almanac* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change in the T<sub>oa</sub>, IOD<sub>a</sub> or Week Number parameter has occurred.
- 13) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Real Time Integrity* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred
- 14) If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Data Bit Assistance* IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred..
- 15) If any of the above *Information Type* IEs becomes temporarily unavailable, the Node B shall initiate the Information Reporting procedure for this specific Information Item by indicating "Information Not Available" in the *Requested Data Value Information* IE. If the Information becomes available again, the Node B shall initiate the Information Reporting procedure for this specific Information.

#### **Response message**

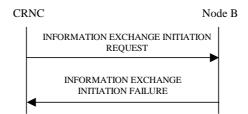
If the Node B is able to initiate the information provision requested by the CRNC, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Information Exchange ID that was included in the INFORMATION EXCHANGE INITIATION REQUEST message. When the *Report Characteristics* IE is set to "On Modification" or "Periodic", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the requested data if the data are available. When the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Report Characteristics* IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the *Requested Data Value* IE.

If the *Requested DataValue* IE contains the *GANSS Common Data* IE, at least one of the *GANSS Ionospheric Model* or *GANSS RX Pos* IEs shall be present.

Any GANSS Generic Data IE associated with a given GANSS included in the Requested DataValue IE shall contain at least one of the DGANSS Corrections, GANSS Navigation Model And Time Recovery, GANSS Time Model, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity or GANSS Data Bit Assistance IEs.

- If the GANSS Generic Data IE does not contain the GANSS ID IE, the corresponding GANSS is "Galileo".
- The *DGANSS Corrections* IE contains one or several *DGANSS Information* IE(s), each of them associated with a GANSS Signal. A *DGANSS Information* IE for "Galileo" that does not contain the *GANSS Signal ID* IE is by default associated with "Galileo L1 OS" (see [39]).
- The GANSS Real Time Integrity IE contains one or several Satellite Information IEs, each of them associated with a satellite and a GANSS Signal. A Satellite Information IE for "Galileo" that does not contain the Bad GANSS Signal ID IE is by default associated with all the signals of the corresponding satellite (see [39]).

### 8.2.26.3 Unsuccessful Operation



#### Figure 27M: Information Exchange Initiation procedure, Unsuccessful Operation

If the Information Type Item received in the *Information Type Item* IE indicates a type of information that cannot be provided, the Node B shall regard the Information Exchange Initiation procedure as failed.

If the requested information provision cannot be initiated, the Node B shall send the INFORMATION EXCHANGE INITIATION FAILURE message over the Node B control port. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Information temporarily not available.
- Information Provision not supported for the object.

### 8.2.26.4 Abnormal Conditions

If the *Information Report Characteristics* IE is set to "On Modification", and the *Information Type Item* IE is set to "DGPS Corrections", or "DGANSS Corrections", but the *Information Threshold* IE is not received in the INFORMATION EXCHANGE INITIATION REQUEST message, the Node B shall regard the Information Exchange Initiation procedure as failed.

If the *Information Type Item* IE is not set to "DGPS Correction" or "DGANSS Corrections", the *Information Report Characteristics* IE is set to "On Modification" and the *Information Threshold* IE is included in the INFORMATION EXCHANGE INITIATION REQUEST message, the Node B shall regard the Information Exchange Initiation procedure as failed.

### 8.2.27 Information Reporting

### 8.2.27.1 General

This procedure is used by a Node B to report the information requested by the CRNC with the Information Exchange Initiation procedure.

### 8.2.27.2 Successful Operation



### Figure 27N: Information Reporting procedure, Successful Operation

If the requested information reporting criteria are met, the Node B shall initiate the Information Reporting procedure. The INFORMATION REPORT message shall use the Node B Control Port. Unless specified below, the meaning of the parameters are given in other specifications.

The *Information Exchange ID* IE shall be set to the Information Exchange ID provided by the CRNC when initiating the Information Exchange with the Information Exchange Initiation procedure.

The Requested Data Value IE shall include at least one IE containing the data to be reported.

### 8.2.27.3 Abnormal Conditions

### 8.2.28 Information Exchange Termination

### 8.2.28.1 General

This procedure is used by the CRNC to terminate the provision of information previously requested by the Information Exchange Initiation procedure.

### 8.2.28.2 Successful Operation



### Figure 270: Information Exchange Termination procedure, Successful Operation

This procedure is initiated with an INFORMATION EXCHANGE TERMINATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate the provision of information corresponding to the Information Exchange ID.

8.2.28.3 Abnormal Conditions

### 8.2.29 Information Exchange Failure

### 8.2.29.1 General

This procedure is used by the Node B to notify the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported.

### 8.2.29.2 Successful Operation



### Figure 27P: Information Exchange Failure procedure, Successful Operation

This procedure is initiated with the INFORMATION EXCHANGE FAILURE INDICATION message sent from the Node B to the CRNC using the Node B Control Port to inform the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

### 8.2.30 MBMS Notification Update

### 8.2.30.1 General

This procedure is used to update the MBMS Notification Indicators to be sent over the MICH.

### 8.2.30.2 Successful Operation



Figure 27Q: MBMS Notification Update procedure, Successful Operation

The procedure is initiated with an MBMS NOTIFICATION UPDATE COMMAND message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall use the different NIs in the *NI Information* IE to generate, as specified in ref. [7], the notification indicators it shall transmit on the MICH starting at the next coming MICH CFN equal to the value in the *MICH CFN* IE and for a duration equal to the Modification Period. If the value of *MICH CFN* IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the *NI Information* IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the *Modification Period* IE is included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use this as the new Modification Period starting at the next coming MICH CFN equal to the value in the *MICH* 

*CFN* IE. If the value of *MICH CFN* IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the *Modification Period* IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the *Modification Period* IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use the lastest stored Modification Period.

### 8.2.30.3 Abnormal Conditions

If the *Modification Period* IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message and no Modification Period is stored in the Node B, the Node B shall initiate the Error Indication procedure.

## 8.3 NBAP Dedicated Procedures

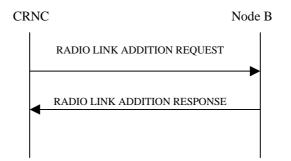
### 8.3.1 Radio Link Addition

### 8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B Communication Context for this UE in the Node B.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

### 8.3.1.2 Successful Operation





The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

#### **Physical Channels Handling:**

[TDD - If the [3.84Mcps TDD - *UL DPCH Information* IE] [1.28Mcps TDD - *UL DPCH Information LCR* IE] [7.68Mcps TDD - *UL DPCH Information 7.68Mcps* IE] is present, the Node B shall configure the new UL DPCH(s) according to the parameters given in the message.]

[TDD - If the [3.84Mcps TDD - *DL DPCH Information* IE] [1.28Mcps TDD - *DL DPCH Information LCR* IE] [7.68Mcps TDD - *DL DPCH Information 7.68Mcps* IE] is present, the Node B shall configure the new DL DPCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

#### [FDD - Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD - If the Node B Communication Context is configured to use DPCH in the downlink and if the RADIO LINK ADDITION REQUEST message contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

#### [FDD - DL Code Information]:

[FDD - When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to ref. [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]

#### [TDD - CCTrCH Handling]:

[TDD - If the *UL CCTrCH Information* IE is present, the Node B shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH Information* IE includes the *TDD TPC UL Step Size* IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[TDD - If the *DL CCTrCH Information* IE is present, the Node B shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE, the Node B shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the *TDD TPC DL Step Size* IE of the lowest numbered DL CCTrCH whose *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE. If no *DL CCTrCH Information* IE includes the *TDD TPC DL Step Size* IE, it shall use the step size configured in other radio link.]

#### **Radio Link Handling:**

#### **Diversity Combination Control:**

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not.

- If the Diversity Control Field IE is set to "May", the Node B shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

[FDD - The signalled *Diversity Control Field* IE is only applicable for DCHs. In case of E-DCH, if any UARFCN(s) of the cells in the added RL(s) is not equal to at least one of the UARFCN(s) of the cells in the existing RL(s) in the Node B Communication Context, the Diversity Control Field, for those RL(s) shall be assumed to be set to "May", otherwise it shall be assumed to be set to "Must".]

When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the

Node B shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case, the Node B shall:

- include in the DCH Information Response IE both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message. [FDD for which the Transport Bearer Not Requested Indicator IE was not included].
- [FDD include in the RADIO LINK ADDITION RESPONSE message the *Transport Bearer Not Setup Indicator* IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the *Transport Bearer Not Requested Indicator* IE in the RADIO LINK ADDITION REQUEST message.]
- [FDD For E-DCH, include in the E-DCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearers to be established for each E-DCH MAC-d flow of this RL for which the Transport Bearer Not Requested Indicator IE was not included.]

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the Node B shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that the RL is combined and if the ALCAP is not used [FDD - and the transport bearer for this DCH is already established], the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK ADDITION REQUEST message, shall not be used. In this case, the *RL ID* IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined.

[FDD - In the case of combining with an E-DCH RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, one of the previously established RLs or a RL previously listed in this RADIO LINK ADDITION RESPONSE message including the *E-DCH FDD Information Response* IE shall be regarded as the RL with which the concerned E-DCH RL is combined. In case E-DCH RL is established for the first time, the Node B shall include *E-DCH FDD Information Response* IE instead of using the Diversity Indication of DCH RL in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. It shall include in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. It shall include in the *E-DCH FDD Information Response* IE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearers to be established for each E-DCH MAC-d flow of this E-DCH RL for which the *Transport Bearer Not Requested Indicator* IE was not included.]

In the case of a set of co-ordinated DCHs, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the DCHs in a set of coordinated DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included].

[TDD - The Node B shall include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH.]

#### [FDD - Transmit Diversity]:

[FDD - If the *Transmit Diversity Indicator* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall activate/deactivate the Transmit Diversity for each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

#### **DL Power Control:**

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing RLs for this Node B Communication Context. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see subclause 8.3.7).]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power and ignore the *DL Time Slot ISCP info LCR*, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE and if *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specifiedin [21], it shall reduce the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH or on the F-DPCH of the RL. If no *Maximum DL Power* IE is included, any Maximum DL power stored for already existing RLs for this Node B Communication Contextshall be applied. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall store this value and never transmit with a lower power on any DL DPCH or on the F-DPCH of the RL. If no *Minimum DL Power* IE is included, any Minimum DL power stored for already existing RLs for this Node B Communication Context shall be applied.]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the *Maximum DL Power* IE included in the *RL Information* IE. If no *Maximum DL Power* IE is included (even if *CCTrCH Maximum DL Transmission Power* IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]

[3.84 Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the *Minimum DL Power* IE included in the *RL Information* IE. If no *Minimum DL Power* IE is included (even if *CCTrCH Minimum DL Transmission Power* IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE. The Node B shall store this value

and not transmit with a higher power on any applicable DL DPCH. If no *Maximum DL Power* IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no *Minimum DL Power* IE is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[3.84Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL Transmission Power IE, the Node B shall determine the initial DL power for each timeslot within a DSCH type CCTrCH by the following rule: If both the CCTrCH Initial DL Transmission Power IE, included in the DL CCTrCH Information IE, and the DL Time Slot ISCP Info LCR IE, included in the RL Information IE, are included then the Node B shall use that power for the PDSCH and ignore the Initial DL Transmission Power IE included in the RL Information IE, otherwise the initial DL Power is the Initial DL Transmission Power IE included in the RL Information IE and if DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL PDSCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL Power* IE, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable PDSCH. If no *Maximum DL Power* IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL Power* IE, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE, included in the *DL CCTrCH Information* IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum DL Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable PDSCH. If no *Minimum DL Power* IE is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the

radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the Node B shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7. In this case, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. *P<sub>init</sub>* shall be set to the power level indicated by the *Initial DL Transmission Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on power level of existing RLs.]

#### [1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

#### [1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

#### General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included].

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the *Transport Bearer Not Setup Indicator* IE for every corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific E-DCH Information* IE, the Node B may use the transport layer addresses and the binding identifiers received from the CRNC when establishing transport bearers for the MAC-d flows of the E-DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to

subclause 4.3.2.4 in [10]. The Node B shall select the TPC pattern as if "first RLS indicator" is set to "first RLS" according to subclause 5.1.2.2.1.2 in [10].]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *F*-DPCH Slot Format IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

#### [FDD - Radio Link Set Handling]:

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD - After addition of the new RL(s), the UL out-of-sync algorithm defined in [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK ADDITION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

#### [FDD - Serving HS-DSCH Radio Link Change]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE, then *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD In the new configuration the Node B shall allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.]
- [FDD The Node B may include the *HARQ Memory Partitioning* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

#### [FDD - HS-DSCH Setup at Serving HS-DSCH Radio Link Change:]

[FDD - If the *HS-DSCH Information* IE is present in the *HS-DSCH Serving Cell Change Information* IE, then:]

- [FDD The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [FDD The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message. The *HARQ Memory Partitioning* IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the *MIMO Activation Indicator* IE is included in the *HS-DSCH Information* IE.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [FDD The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK ADDITION REQUEST message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode Activation Indicator IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode Activation Indicator IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode Activation Indicator IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]
- [FDD If the *Serving Cell Change CFN* IE is included into the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value RNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]
- [FDD If the *Serving Cell Change* CFN IE is not included into the RADIO LINK ADDITION REQUEST message, then the Node B shall include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the *HS-DSCH Information* IE is present in the *HS-DSCH Serving Cell Change Information* IE, then the Node B shall include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Node B needs a bearer re-arrangement, then the Node B may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the requested Serving HS-DSCH Radio Link Change was successful or unsucessful, the Node B shall indicate this in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]
  - [FDD The Node B shall configure the new Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation according to [10].]
  - [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the *HS-DSCH Serving Cell Change Information Response* IE.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD - E-DCH]:

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE, then for every such RL:]

- [FDD The Node B shall setup the E-DCH resources as configured in the Node B Communication Context.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in *RL Information Response* IE for every RL indicated by the *E-DCH RL Indication* IE, set to 'E-DCH' in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E*-HICH Power Offset IE in the *RL* Specific *E*-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

#### [FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE, then *Serving E-DCH RL* IE indicates the new Serving E-DCH Radio Link:]

- [FDD If the new Serving E-DCH RL is in this Node B:]
  - [FDD The Node B may allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the new serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK ADDITION RESPONSE message for the new serving E-DCH RL.]
- [FDD The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature* Sequence IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release* Indicator IE in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change* Information Response IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the Node B Communication Context that have not been included in the *E-DCH FDD DL Control Channel Information* IE in *RL Information Response* IE.]
- [FDD If the *Serving Cell Change CFN* IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]
- [FDD If the *Serving Cell Change CFN* IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving E-DCH Radio Link.]
- [FDD If the addition of the requested Serving E-DCH Radio Link was successful but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes an *E-DPCH Information* IE, the Node B shall use the new parameters for the related resource allocation operations.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10].]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in [10].]

#### [FDD - E-DCH Setup:]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK ADDITION REQUEST message:]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B:]
  - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new configuration and include the new configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK ADDITION RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ *Process Allocation For 2ms Non-Scheduled Transmission Grant* IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
  - [FDD if the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]
  - [FDD if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]

#### [TDD - HS-DSCH Setup]:

[TDD - If the HS-DSCH Information IE is present in the RADIO LINK ADDITION REQUEST message, then]:

- [TDD The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]
- [TDD The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

- [TDD If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].]
- [TDD The Node B shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *HS-DSCH Information* IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow. If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.]
- [TDD The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MACd PDU Size Extended IE.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD *HS-SCCH Specific Information Response* IE] [1.28Mcps TDD *HS-SCCH Specific Information Response LCR* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the *TSN-Length* IE is included in the *HS-DSCH TDD Information* IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UsedFrequency* IE in the *HS-SCCH Specific Information Response LCR* IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the *UARFCN* IE in the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [TDD - Intra-Node B Serving HS-DSCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link]:

- [TDD The Node B may include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
   [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific
   Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the
   HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

#### [TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - *E-DCH Information* IE][1.28Mcps TDD - *E-DCH Information* 1.28Mcps IE] [7.68Mcps TDD - *E-DCH Information* 7.68Mcps IE] is present in the RADIO LINK ADDITION REQUEST message:]

- [TDD The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the *E-DCH Serving RL* IE.]
- [TDD If the *TNL QoS* IE is included in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *E-DCH MAC-d Flows Information TDD* IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation.]
- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MAC-d Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps TDD *E-DCH Non-scheduled Grant Information TDD* IE] [1.28Mcps TDD *E-DCH Non-scheduled Grant Information TDD* IE] [7.68Mcps TDD *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE], if included, for the related resource allocation operation.]
- [TDD If in the RADIO LINK ADDITION REQUEST message the *E-DCH Grant Type* IE in the *E-DCH MACd Flows Information TDD* IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]

- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows Information TDD* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate* IE in the *E-DCH TDD Information* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE in the *E-DCH TDD Information LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH TDD Maximum Bitrate* 7.68*Mcps* IE in the *E-DCH TDD Information* 7.68*Mcps* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the [3.84Mcps TDD - *E-DCH TDD Information* IE] [7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE], then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE in the [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information* 7.68Mcps IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *Maximum Number of Retransmission for Scheduling Info LCR* IE and the *E-DCH Retransmission timer for Scheduling Info LCR* IE in the *E-DCH TDD Information LCR* IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [TDD The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [TDD - Intra-Node B Serving E-DCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link]:

- [TDD - The Node B shall allocate E-AGCH parameters [1.28Mcps TDD - E-HICH parameters] corresponding to the E-DCH and include the *E-AGCH Specific Information Response TDD* IE, [1.28Mcps TDD - *E-HICH Specific Information Response 1.28Mcps TDD* IE] in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### **Response Message:**

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

After sending the RADIO LINK ADDITION RESPONSE message, the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the *Delayed Activation* IE is not included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD start transmission on the new RL immediately as specified in [16].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":

- not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the *Activation CFN* IE.]
  - [TDD start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]

### 8.3.1.3 Unsuccessful Operation

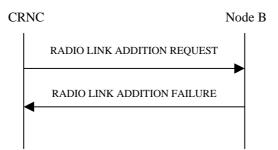


Figure 29: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK ADDITION FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD - If some RL(s) were established successfully, the Node B shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST contains a *C-ID* IE indicating that a Radio Link must be established on a Cell where DPC Mode change is not supported and DPC Mode can be changed for the relevant Node B Communication Context, the Node B shall consider the procedure as failed for the concerned Radio Link and shall respond with a RADIO LINK ADDITION FAILURE with the appropriate cause value ("DPC Mode change not supported").]

[FDD - If the requested Serving HS-DSCH Radio Link Change was successful, or if the addition of the requested serving HS-DSCH Radio Link was successful or existed already but the Serving HS-DSCH Radio Link change was unsuccessful, the Node B shall indicate this in the *HS-DSCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested Serving E-DCH Radio Link Change was successful, or if the addition of the requested serving E-DCH Radio Link was successful or existed already but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Reconfiguration CFN not elapsed
- CM not supported
- [FDD DPC Mode change not supported]

- Delayed Activation not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]
- [FDD TX diversity for MIMO UE on DL Control Channels not available]

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Miscellaneous** Cause

- O&M Intervention
- Control processing overload
- HW failure

### 8.3.1.4 Abnormal conditions

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Compressed Mode Deactivation Flag* IE with the value "Deactivate" when compressed mode is active for the existing RL(s), and at least one of the new RL is added in a cell that has the same UARFCN (both UL and DL) of at least one cell with an already existing RL, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and if the *DL Reference Power* IEs are included in the *RL Information* IE but the *DL Reference Power* IE is not present for each RL in the *RL Information* IE, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s), the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE or *RL Specific E-DCH Information* IE included in the *RL Information* IE for a specific RL [FDD - and the E-DCH RL is already configured in the Node B] and the *Diversity Control Field* IE is set to "Must", the Node B shall regard the Radio Link Addition procedure as failed and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "Must Not", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message does not include the *UARFCN* IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]

[1.28Mcps TDD - For a single frequency cell, if the RADIO LINK ADDITION REQUEST message includes the *UARFCN* IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]

[FDD - If the concerned NodeB Communication Context is configured to use DPCH in downlink and if a transmission gap pattern sequence is active with an SF/2 downlink compressed mode method and the RADIO LINK ADDITION REQUEST message does not contain the transmission gap pattern sequence code information for any new radio link, the NodeB shall reject the Radio Link Addition procedure using the RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM Settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE but not the *HS-DSCH FDD Information* IE and the Node B Communication Context is not configured for HS-DSCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE but the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving Cell Change CFN* IE but neither the *Serving E-DCH RL* IE nor *HS-DSCH Serving Cell Change Information* IE is included into, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK ADDITION REQUEST message, but the *E-DPCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL-ID* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information*] has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for HS-DSCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for E-DCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message contains the *HS-PDSCH RL ID* IE [FDD - in the *HS-DSCH Serving Cell Change Information* IE] and/or *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the Node B but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Serving Cell Change Information* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but the DCH is configured to be included as a part of the downlink CCTrCH, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the *MIMO Activation Indicator* IE and/or *Sixtyfour QAM Usage Allowed Indicator* IE set to "Allowed", but does not contain the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message contains the *Serving E-DCH RL ID* IE but contains the *Transport Bearer Not Requested Indicator* IE or there is at least one E-DCH MAC-d flow which transport bearer was not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with the existing RL which the transport bearer is established for the DCH in Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

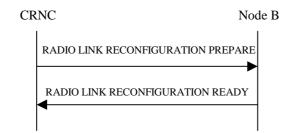
### 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one Node B Communication Context.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

### 8.3.2.2 Successful Operation



#### Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Modify* IE then the Node B shall treat them each as follows:

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the Node BNode B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the Node BNode B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of coordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Add* IEs then the Node B shall treat them each as follows:

- If the *DCHs To Add* IE includes multiple *DCH Specific Info* IEs, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

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- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Delete* IE, the Node B shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *UL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]

- [FDD If the *UL DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuration.]
- [FDD The Node B shall use the *TFCS* IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPCCH Slot Format* IE, the Node B shall set the new Uplink DPCCH Structure to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the Node B shall apply diversity according to the given value.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE and it is set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration, the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the Node B shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the Node B shall set the new Downlink DPCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE, the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated or once the previous Compressed Mode Configuration has been deactivated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity* DTX-DRX Information IE, then:]

- [FDD - The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]

- [FDD - If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE, then:]

- [FDD If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]
- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [10].]
- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

#### [FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DPCH Information* IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *E-DPCH Information* IE includes the *Maximum Set of E-DPDCHs* IE, the Node B shall apply the contents of the Maximum Set in the new configuration.]
- [FDD If the *E-DPCH Information* IE includes the *Puncture Limit* IE, the Node B shall apply the value in the uplink of the new configuration]
- [FDD If the *E-DPCH Information* IE includes the *E-TFCS Information* IE, the Node B shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]
- [FDD If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the

Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]

- [FDD If the *E-DPCH Information* IE includes the *E-TTI* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-DPCCH Power Offset* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 2-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-RGCH 3-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *HARQ Info for E-DCH* IE, the Node B shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *HS-DSCH Configured Indicator* IE, the Node B shall use the value when the new configuration is being used.]

### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Modify* or *DL CCTrCH to Modify* IE, then the Node B shall treat them each as follows:]

- [TDD If the IE includes any of the *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]
- [TDD If the IE includes any UL DPCH To Add IE, UL DPCH To Add LCR IE, UL DPCH To Add 7.68Mcps IE, DL DPCH To Add 7.68Mcps IE, DL DPCH To Add LCR IE, or DL DPCH To Add IE, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH To Delete* IE or *DL DPCH To Delete* IE, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH To Modify IE or DL DPCH To Modify IE and includes any of the Repetition Period IE, Repetition Length IE or TDD DPCH Offset IE, or the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD Midamble Shift And Burst Type IE], [1.28Mcps TDD Midamble Shift LCR IE], [7.68Mcps TDD Midamble Shift And Burst Type 7.68Mcps IE], or TFCI Presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code LCR IE], [7.68Mcps IE], [1.28Mcps TDD TDD UL DPCH Time Slot Format LCR IE or TDD DL DPCH Time Slot Format LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply this value to the uplink TPC step size in the new configuration.]
- [TDD If the *DL CCTrCH to Modify* IE includes the *TDD TPC DL Step Size* IE, the Node B shall apply this value to the downlink TPC step size in the new configuration.]
- [1.28Mcps TDD If the *DL DPCH To Modify Per RL* IE includes the *TDD TPC DL Step Size* IE and the *RL ID* IE in the *DL DPCH To Modify Per RL* IE is same as the *HS-PDSCH RL ID* IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration.]
- [1.28Mcps TDD If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall delete / add / modify the PLCCH assignment according to the content when the new configuration is used.]

### [TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IE or *DL CCTrCH To Add* IE, the Node B shall include this CCTrCH in the new configuration.]

[TDD - If the *UL/DL CCTrCH To Add* IE includes any [3.84Mcps TDD - *UL/DL DPCH Information* IE] [1.28Mcps TDD - *UL/DL DPCH Information LCR* IE] [7.68Mcps TDD - *TDD Channelisation Code* 7.68Mcps IE], the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *TDD TPC DL Step Size* IE within a *DL CCTrCH To Add* IE, the Node B shall set the downlink TPC step size of that CCTrCH to that value, otherwise the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes the *TDD TPC UL Step Size* IE, the Node B shall apply the uplink TPC step size in the new configuration.]

[1.28Mcps TDD - The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH To Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] in the new configuration.]

[1.28Mcps TDD - If the *DL DPCH To Add Per RL* IE includes the *TDD TPC DL Step Size* IE and the *RL ID* IE in the *DL DPCH To Add Per RL* IE is same as the *HS-PDSCH RL ID* IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration.]

[1.28Mcps TDD - If the *UL Timeslot Information LCR* IE includes the *PLCCH Information* IE, the Node B shall add the PLCCH assignment when the new configuration is used.]

## [TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted , the Node B shall remove this CCTrCH in the new configuration.]

### **DL Power Control:**

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, when the new configuration has been activated, according to subclause 8.3.7, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

### [TDD - DSCH Addition/Modification/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add*, *DSCH To Modify* or *DSCH To Delete* IE, then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *TNL QoS* IE in the *DSCH TDD Information* IE and if ALCAP is not used, the Node B may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

### [TDD - USCH Addition/Modification/Deletion]:

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified, if the *TNL QoS* IE is included and if ALCAP is not used, the Node B may use the

*TNL QoS* IE to determine the transport bearer characteristics to apply between the Node B and the CRNC for the related USCHs.]

- [TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

#### **RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- [FDD If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. During compressed mode, the  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the *CCTrCH Maximum* DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the Maximum Downlink Power IE included in the RL Information IE. If no Maximum Downlink Power IE is included (even if CCTrCH Maximum DL Transmission Power IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the DL CCTrCH To Add IE is included, the Node B shall determine the minimum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the CCTrCH Minimum DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the Minimum Downlink Power IE included in the RL Information IE. If no Minimum Downlink Power IE is included (even if CCTrCH Minimum DL Transmission Power IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum CCTrCH DL Power to Modify* IE and/or *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH. If the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values for all other DCH type CCTrCHs of the radio link.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Maximum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the *Minimum DL Power* IE is included in the *DL Timeslot Information LCR* IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL

DPCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]

- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and *Maximum DL Power to Modify LCR* IE and/or *Minimum DL Power to Modify LCR* IE are included, the Node B shall apply the values in the new configuration for this timeslot, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [3.84Mcps TDD and 7.68Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the *CCTrCH Initial DL Transmission Power* IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL Transmission Power* IE. The Node B shall apply the determined initial CCTrCH DL power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]
- [3.84Mcps TDD and 7.68Mcps TDD The initial power, maximum power, and minimum power for a DSCH type CCTrCH to be added or modified, shall be determined as follows:
  - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
  - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot in a DCH type CCTrCH by the following rule: If the *Initial DL Transmission Power* IE is included in the *DL Timeslot Information LCR* IE, then the Node B shall use that power for the initial DL power, otherwise the initial DL power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included, the Node B shall use any transmission power level currently used on already existing timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]
- [1.28Mcps TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall determine the initial DL power for each timeslot within the DSCH type CCTrCH by the following rule: If both the *CCTrCH Initial DL Transmission Power* IE and the *DL Time Slot ISCP Info LCR* IE are included then the Node B shall use that power for the PDSCH power, otherwise the PDSCH power is the *Initial DL Transmission Power* IE included in the *RL Information* IE. If *DL Time Slot ISCP info LCR* IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each PDSCH and on each timeslot of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no *Initial DL Transmission Power* IE is included with a new CCTrCH (even if *CCTrCH Initial DL Transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing RL/timeslots when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]
- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Maximum DL Transmission Power* IE is included then the Node B shall use that power for the maximum DL power, otherwise

the maximum DL power is the *Maximum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL PDSCH. If no *Maximum Downlink Power* IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]

- [1.28 Mcps TDD If the *DL CCTrCH To Add* IE is included, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the *CCTrCH Minimum DL Transmission Power* IE is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the *Minimum Downlink Power* IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL PDSCH. If no *Minimum Downlink Power* IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]
- [1.28 Mcps TDD If the *DL CCTrCH To Modify* IE is included and the *Maximum CCTrCH DL Power to Modify* IE and/or the *Minimum CCTrCH DL Power to Modify* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [FDD If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the Node B shall adjust the timing of the radio link accordingly in the new configuration.]
- [1.28Mcps TDD If the *RL Information* IE message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]
- [FDD If the *RL Information* IE includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

### [TDD - PDSCH RL ID]:

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then in the new configuration the Node B shall use the PDSCH and/or PUSCH in this radio link.]

### Signalling bearer rearrangement:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Signalling Bearer Request Indicator* IE the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION READY message.

### **HS-DSCH Setup:**

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION PREPARE message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message. [FDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE set to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information*
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
   [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific
   Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the
   HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message. If the *HARQ Preamble Mode* Activation Indicator IE in the HARQ Preamble Mode Activation Indicator IE in the *HS-DSCH Information Response* IE in the HS-DSCH Information Response IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-SICH SIR Target* IE in the *HS-DSCH Information* IE, the Node B shall use this value to determine the HS-SICH SIR Target. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

## Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION READY message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
   [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific
   Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the
   HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.

## **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the *HS-DSCH Information To Modify* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH Information To Modify* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Window Size* IE or *T1* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated values in the new configuration for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-d PDU Size Index* IE in the *Modify Priority Queue* choice, the Node B shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the *MAC-d PDU Size Index* IE in the new configuration.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *CQI Feedback Cycle k* IE, the *CQI Repetition Factor* IE, the *ACK-NACK Repetition Factor* IE, the *ACK Power Offset* IE, the *NACK Power Offset* IE or the *CQI Power Offset* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]
- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To Modify* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes *Measurement Power Offset* IE in the *HS-DSCH Information* IE or the *HS-DSCH Information To Modify* IE, then the Node B shall use the measurement power offset as described in [10] subclause 6A.2.]
- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use the indicated power offset in the new configuration.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH SIR Target IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this value to the SIR Target in the new configuration. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH TPC step size IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]

- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information To Modify* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the Node B may modify the HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the Node B may modify the HS-SCCH parameters corresponding to the HS-DSCH. The Node B shall then report the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD - HS-SCCH Specific Information Response] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR]
   [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps] IEs in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the HS-DSCH Information To Modify IE includes the HS-PDSCH Code Change Grant IE, then the Node B may modify the HS-PDSCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the concerned Node B is not in Continuous Packet Connectivity HS-SCCH less mode, the RNC shall not include the HS-PDSCH Code Change Grant IE in the HS-DSCH Information To Modify IE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Preamble Mode IE in the HS-DSCH Information To Modify IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information To Modify* IE, then the Node B shall use, in the new configuration, the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify* IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the *SixtyfourQAM DL Usage Indicator* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH Information To Modify* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD For a multi-frequency cell, if the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, and the Node B allows UE to use HSDPA resources distributed over multiple frequencies, then the Node B may modify the HS-SCCH Codes corresponding to the HS-DSCH over multiple frequencies, the Node B shall then report the codes which are used in the new configuration specified in the *HS-SCCH Specific Information Response LCR per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

### HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE message in the *HS-DSCH MAC-d Flows To Add* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION READY message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may include the *HARQ Memory Partitioning per UARFCN* IE in the RADIO LINK RECONFIGURATION READY message.]

### [FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message:]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH FDD Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this Node B:]
  - [FDD The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.]
  - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION READY message for the serving E-DCH RL.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive

number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

### [FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E*-DCH *RL Indication* set to "Non E-DCH".]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION READY message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

### [FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link at the activation of the new configuration.]
- [FDD If the new Serving E-DCH RL is in this Node B:]
  - [FDD The Node B may allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the new serving E-DCH RL.]
- [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION READY message for the new serving E-DCH RL.]
- [FDD The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links in the Node B.]

### [FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE, then:]

- [FDD If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH HARQ Power Offset FDD* IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,iud}$ ) as defined in [10].]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message contains the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]

- [FDD If the *E-DCH Logical Channel To Modify* IE includes *E-DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-e Reset Indicator* IE in the *E-DCH FDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e Reset is performed in the UE for sending the HARQ Failure Indication.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]
  - [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The Node B shall then

report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION READY message.]

### [FDD - E-DCH MAC-d Flow Addition/Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

### [TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]
- [TDD The Node B shall allocate E-AGCH parameters [1.28Mcps TDD and E-HICH parameters] corresponding to the E-DCH and include the *E-AGCH Specific Information Response TDD* IE [1.28Mcps TDD and *E-HICH Specific Information Response TDD* IE] in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

### [TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information* IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-PUCH Information LCR* IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-TFCS Information TDD* IE, the Node B shall apply the beta parameters to the new configuration.]

### [3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information* IE and *E-DCH Non-scheduled Grant Information TDD* IE if there are to be non-scheduled grants.]

### [1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information LCR* IE and *E-DCH Non-scheduled Grant Information LCR TDD* IE if there are to be non-scheduled grants.]

### [7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information 7.68Mcps* IE and *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE if there are to be non-scheduled grants.]

### [TDD - E-DCH MAC-d Flow Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

### [3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - If the *E-DCH Non-scheduled Grant Information TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

### [1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the *E-DCH Non-scheduled Grant Information LCR TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

### [7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

### [TDD - E-DCH Modification:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the [3.84Mcps TDD - *E-DCH TDD Information* IE][1.28Mcps TDD - *E-DCH TDD Information LCR* IE][7.68Mcps TDD - *E-DCH TDD Information* 7.68Mcps IE], then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [7.68Mcps TDD If the *E-DCH TDD Information* 7.68Mcps IE includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information* 7.68Mcps IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the [3.84Mcps TDD E-DCH TDD Information IE] [1.28Mcps TDD E-DCH TDD Information LCR IE] [7.68Mcps TDD E-DCH TDD Information 7.68Mcps IE] includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info* LCR IE and the *E-DCH Retransmission timer for Scheduling Info* LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmission timer.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Grant Type* IE, the Node B shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
  - [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

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- [TDD - If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e Reset is performed in the UE for sending the HARQ Failure Indication.]

### [FDD - Phase Reference Handling]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE, the Node B shall assume that Primary CPICH usage for channel estimation has been reconfigured.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Secondary CPICH Information Change* IE, the Node B shall assume that Secondary CPICH usage for channel estimation has been reconfigured.]

### [FDD - Fast Reconfiguration]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Fast Reconfiguration Mode* IE, the Node B shall, if supported, and if it is possible to base the synchronization of the reconfiguration on the detection of the change in the uplink scrambling code for this reconfiguration, include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message.]

### [1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - *If the Power Control GAP* IE is included in the RADIO LINK RECONFIGURATION PREPARE message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

### General

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IEs in the [TDD - *DSCHs To Modify, DSCHs To Add, USCHs To Modify, USCHs To Add*], *HS-DSCH Information, HS-DSCH Information To Modify, HS-DSCH MAC-d Flows To Add,* [TDD - *E-DCH MAC-d Flows to Add, E-DCH TDD Information to Modify* IE] [FDD - *RL Specific E-DCH Information* IE] or in the *RL Specific DCH Information* IEs, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being added or any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included [FDD - if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH,] only for one of the DCH in the set of co-ordinated DCHs.

[FDD - If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

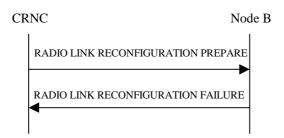
[FDD - If the RADIO LINK RECONDIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION READY message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

In the case of a Radio Link being combined with another Radio Link within the Node B, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the combined Radio Links [FDD - if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH].

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

## 8.3.2.3 Unsuccessful Operation



### Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

### **Radio Network Layer Cause**

- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported
- RL Timing Adjustment not supported
- F-DPCH not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available].
- [FDD TX diversity for MIMO UE on DL Control Channels not available]

### **Transport Layer Cause**

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- Transport Resources Unavailable

### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

## 8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-Static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IE, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message IE includes more than one *DL Reference Power* IE, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message is to modify UE channel estimation information for an existing RL and the modification is not allowed according to [10] subclause 4.3.2.1, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If multiple radio links exist within the Node B Communication Context and the RADIO LINK RECONFIGURATION PREPARE message does not include a *RL ID* IE within each *UL DPCH To Add Per RL* IE, *DL DPCH To Add Per RL* IE, *UL DPCH To Modify Per RL* IE, and *DL DPCH To Modify Per RL* IE that is present in the message, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned the Node B Communication Context is configured to use DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the *TFCS* IE, *DL DPCH Slot Format* IE, *TFCI Signalling Mode* IE, *Multiplexing Position* IE, *Limited Power Increase* IE and *DL DPCH Power Information* IE in the *DL DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message, but the *E-DPCH Information* IE is not present or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE or *E-DPCCH Power Offset* IE or *HS-DSCH Configured Indicator* IE are not present in the *E-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE and if in the new configuration Node B shall assume that the UE is not using the Primary CPICH for channel estimation nor the Secondary CPICH, Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the Node B Communication Context is not configured for E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION PREPARE message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: *E-DCH Serving RL* IE, [3.84Mcps TDD and 7.68Mcps TDD - *E-PUCH Information* IE, *E-TFCS Information TDD* IE], [1.28Mcps TDD - *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE], *E-DCH MAC-d Flows to Add* IE, and [3.84Mcps TDD - *E-DCH TDD Information* IE], [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information* 7.68Mcps IE].]

[FDD - If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION PREPARE message and the *UL Scrambling Code* IE does not indicate an uplink scrambling code different from the currently used uplink scrambling code the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE in addition to the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the DRX Information To Modify IE in Continuous Packet Connectivity DTX-DRX Information To Modify IE while the Continuous Packet Connectivity

DRX configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but does not contain the corresponding *DCH ID* IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in *DCH Information To Add* IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 4 but is not configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply the "Closed loop mode 1" and if the concerned Node B Communication Context is not configured to apply UL DPCCH Slot Format 2 or 3, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO or allowed to apply 64 QAM but is not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but does not contain the *F-DPCH Information* IE and the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message]

[FDD - If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

## 8.3.3 Synchronised Radio Link Reconfiguration Commit

## 8.3.3.1 General

This procedure is used to order the Node B to switch to the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

## 8.3.3.2 Successful Operation



## Figure 32: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The Node B shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure

- [TDD at the next coming CFN with a value equal to the value requested by the CRNC in the CFN IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]
- [FDD if the Fast Reconfiguration IE is not included in the RADIO LINK RECONFIGURATION COMMIT message at the next coming CFN with a value equal to the value requested by the CRNC in the *CFN* IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]
- [FDD if the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message as soon as the Node B detects that the UE uses the new configuration in the uplink (e.g. the Node B detects that the UE uses the new scrambling code used for the uplink by sending the RADIO LINK RESTORATION message). In order to limit the period for the detection in the Node B the CFN in the RADIO LINK RECONFIGURATION COMMIT message indicates the earliest possible time instant at which the UE might use the new configuration.]

[FDD - If the *Active Pattern Sequence Information* IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the *CM Configuration Change CFN* IE in the *Active Pattern Sequence Information* IE shall be ignored by the Node B.]

[FDD - If the *Active Pattern Sequence Information* IE is not included in the RADIO LINK RECONFIGURATION COMMIT message and a new Compressed Mode Configuration exists in the prepared configuration, the Node B shall behave as if an *Active Pattern Sequence Information* IE with an empty *Transmission Gap Pattern Sequence Status* IE was included.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

In the case of a Transport Channel or MAC-d flow modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the configuration switching point (defined above). The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], subclauses 5.8.2 and 5.8.3.

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has received the RADIO LINK RECONFIGURATION COMMIT message via the old Communication Control Port.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the configuration switching point (defined above). From that moment on, all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions shall be started when the indicated *TGCFN* IE elapses. The *CFN* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value. If the values of the *CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CFN* IE.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the *Active Pattern Sequence Information* IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.]

## 8.3.3.3 Abnormal Conditions

If a new transport bearer is required for the new reconfiguration and it is not available at the configuration switching point (defined above), the Node B shall initiate the Radio Link Failure procedure.

[FDD - If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B did not include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message, the Node B shall initiate the Radio Link Failure procedure.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the *Active Pattern Sequence Information* IE which activates a downlink transmission gap pattern sequence with an SF/2 downlink compressed mode method and if the concerned NodeB Communication Context is configured to use DPCH in downlink and for any Radio Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link Failure procedure with the cause value 'Invalid CM Settings'.]

## 8.3.4 Synchronised Radio Link Reconfiguration Cancellation

## 8.3.4.1 General

This procedure is used to order the Node B to release the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Preparation Reconfiguration procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

## 8.3.4.2 Successful Operation



## Figure 33:Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

When receiving the RADIO LINK RECONFIGURATION CANCEL message from the CRNC, the Node B shall release the new configuration ([FDD - including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

## 8.3.4.3 Abnormal Conditions

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# 8.3.5 Unsynchronised Radio Link Reconfiguration

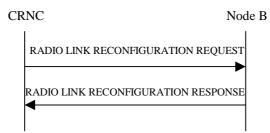
## 8.3.5.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a Node B.

The Unsynchronised Radio Link Reconfiguration procedure is used when there is no need to synchronise the time of the switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node B also used for the UE–UTRAN connection.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.5.2 Successful Operation



### Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IE then the Node B shall treat them each as follows:

- If the *DCHs To Modify* IE includes the *Frame Handling Priority* IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *DCHs To Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Transport Format Set* IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE includes the *Allocation/Retention Priority* IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the Node B shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]
- [FDD If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs To Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

## **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH To Add* IE, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration. In particular:

- If a *DCHs To Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the Node B shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the Node B shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If the *QE-Selector* IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" as the QE in the UL data frames [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have the *QE-Selector* IE set to "non-selected", the Physical channel BER shall be used for the QE [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

### [FDD - Physical Channel Modification]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *UL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL DPDCH Indicator For E-DCH Operation* IE set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes a *DL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the information when building TFCIs in the new configuration.
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity* DTX-DRX Information IE, then:]

- [FDD The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity* DTX-DRX Information To Modify IE, then:]

- [FDD If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]
- [FDD If the *Enabling Delay* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [10].]

- [FDD If the *DTX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of *DTX Information To Modify* IE is "Deactivate", then DRX should be deactived together with DTX.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Information* IE, then:]

- [FDD The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to [10].]
- [FDD The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the *Continuous Packet Connectivity HS-SCCH less Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the Node B shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

### [FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS Information* IE, the Node B shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the *E-TFCS Information* IE contains the *E-DCH Minimum Set E-TFCI* IE the Node B shall use the value for the related resource allocation operation.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-DPDCH Power Interpolation* IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the *E-DPDCH Power Interpolation* IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]

[FDD - If the *E-TFCS Information* IE in the *E-DPCH Information* IE contains the *E-TFCI Boost Information* IE, the Node B shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-DPCCH Power Offset* IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 2-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-RGCH 3-Index-Step* IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *HARQ Info for E-DCH* IE, the Node B shall use the value when the new configuration is being used.]

### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH To Modify* IE or *DL CCTrCH To Modify* IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD - If the *UL CCTrCH To Modify* IE or *DL CCTrCH To Modify* IE includes *TFCS* IE and/or *Puncture Limit* IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[1.28Mcps TDD - If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the Node B shall apply this value as the new configuration and use it for the UL inner loop power control according [19] and [21].]

### [TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH To Delete* IE or *DL CCTrCH To Delete* IE, the Node B shall not include this CCTrCH in the new configuration.]

### **DL Power Control:**

- [FDD - If the *Radio Link Information* IE includes the *DL Reference Power* IE and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the *DL Reference Power* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

### **RL Information:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH or on the F-DPCH of the Radio Link once the new configuration is being used. During compressed mode, the  $\delta P_{curr}$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]
- [FDD If the *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code or on the F-DPCH of the Radio Link once the new configuration is being used.]
- [3.84 Mcps TDD and 7.68Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other DCH type CCTrCHs.]
- [3.84 Mcps TDD and 7.68Mcps TDD The maximum power and minimum power for a DSCH type CCTrCH to be modified, shall be determined as follows:
  - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum and maximum power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
  - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum power, however, is subject to control by the CRNC via the frame protocol].
- [1.28 Mcps TDD If *Maximum DL Power* IE and/or *Minimum DL Power* IE are included within *DL Timeslot Information LCR* IE, the Node B shall apply the values in the new configuration for this timeslot within a DCH type CCTrCH, if the *RL Information* IE includes *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for all other timeslots.]
- [1.28 Mcps TDD If the *CCTrCH Maximum DL Transmission Power* IE and/or the *CCTrCH Minimum DL Transmission Power* IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the *RL Information* IE includes the *Maximum Downlink Power* and/or the *Minimum Downlink Power* IEs, the Node B shall apply the values in the new configuration for other timeslots.]
- [FDD If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate

scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

- [1.28Mcps TDD If the *RL Information* IE contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]
- [FDD If the *RL Information* IE contains the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

### Signalling Bearer Re-arrangement:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Signalling Bearer Request Indicator* IE, the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context and include the *Target Communication Control Port ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

### **HS-DSCH Setup:**

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The Node B shall include the HARQ Memory Partitioning IE in the [FDD HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]

- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the
   [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific
   Information Response LCR IE] [7.68Mcps TDD HS-SCCH Specific Information Response 7.68Mcps IE] in the
   HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the *HARQ Preamble Mode* 0 is applied, then the Node B shall not include the *HARQ Preamble Mode* 0 is applied, then the Node B shall not include the *HARQ Preamble Mode* 0 is applied, then the Node B shall not include the *HARQ Preamble Mode* Activation Indicator IE in the RADIO LINK RECONFIGURATION RESPONSE MESSAGE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SICH SIR Target* IE in the *HS-DSCH Information* IE, the Node B shall use this value to determine the HS-SICH SIR Target. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the *MIMO Activation Indicator* IE is included in the *HS-DSCH FDD Information* IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *Sixtyfour QAM Usage Allowed Indicator* IE is included in the *HS-DSCH FDD Information* IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d PDU Size Format* IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Number of Supported Carriers* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the *HARQ Memory Partitioning per UARFCN* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the *Multi-Carrier number* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

### Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL ID* IE, this indicates the new Serving HS-DSCH Radio Link:

- The Node B shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.
- The Node B may include the *HARQ Memory Partitioning* IE in the [FDD *HS-DSCH FDD Information Response* IE] [TDD *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning Information Extension For MIMO* IE.]
- [FDD The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- If a reset of the MAC-hs is not required the Node B shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.

### **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To ModifyUnsynchronised* IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer for the Priority Queue of Node B Communication Context.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To ModifyUnsynchronised IE, then the Node B shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]

- [FDD If the *HS-SCCH Power Offset* IE is included in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, the Node B shall use the indicated power offset in the new configuration.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH SIR Target IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this value to the SIR Target in the new configuration. The *HS-SICH SIR Target* IE indicates the received UL SIR target of HS-SICH NACK for this UE.]
- [1.28Mcps TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH TPC step size IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]
- [1.28Mcps TDD For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the *Multi-carrier HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* To *Modify Unsynchronised* IE, the Node B shall use this information together with the *HS-DSCH Physical Layer Category* IE in the *UE Capabilities Information* IE in the *HS-DSCH Information To Modify Unsynchronised* IE to allocate HSDPA resources over multiple carriers for the UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information To ModifyUnsynchronised* IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *HARQ Preamble Mode* IE is not included or if the mode 0 is applied, then the Node B shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *RADIO LINK RECONFIGURATION RESPONSE* IE in the RADIO LINK RECONFIGURATION RESPONSE MESSAGE.]
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Physical Layer Category* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the Node B shall use this information in the new configuration and may include the *HARQ Memory Partitioning* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The *HARQ Memory Partitioning* IE may contain the *HARQ Memory Partitioning* Information Extension For MIMO IE.]
- [FDD If the *MIMO Mode Indicator* IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO N/M Ratio* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify Unsynchronised IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]
- [FDD If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the *HS-DSCH TB Size Table Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

### HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *HS-DSCH MAC-d Flows To Add* or *HS-DSCH MAC-d Flows To Delete* IEs and if the Serving HS-DSCH Radio Link is in the Node B, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION REQUEST message includes an *HS-DSCH MAC-d Flows To Delete* IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release any existing HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d Flows To Add* IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST message in the *HS-DSCH MAC-d Flows To Add* IE for a Priority Queue including *Scheduling Priority Indicator* IE and *Maximum MAC-d PDU Size Extended* IE.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the Node B shall ignore the *SID* IE and *MAC-d PDU Size* IE in the *MAC-d PDU Size Index* IE and use *Maximum MAC-d PDU Size Extended* IE to optimise capacity allocation for the related HSDPA Priority Queue.
- [FDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

### [FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message:]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH Logical Channel information* IE in the *E-DCH MAC-d Flows Information* IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
- [FDD If the *TNL QoS* IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offset for Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the Serving E-DCH RL IE:]
  - [FDD the Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The Node B may include the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the serving E-DCH RL.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *HS-DSCH Configured Indicator* IE and/or the *Maximum Set of E-DPDCHs* IE, and/or the *Puncture Limit* IE and/or the *E-TTI* IE, the Node B shall use and apply the value(s) in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

### [FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE in the *RL Information* IE:]

- [FDD The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B may include the *E-AGCH And E-RGCH/E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH/E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence* IE and the Node B may include the corresponding *E-RGCH Signature Sequence* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every RL indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E*-DCH *RL Indication* set to "Non E-DCH".]
- [FDD For each RL for which the *E-DCH RL Indication* IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the *E-DCH RL Set ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The value of the *E-DCH RL Set ID* IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

### [FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Serving E-DCH RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.]
- [FDD If the New Serving E-DCH RL is in this Node B:]
  - [FDD The Node B may allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the new serving E-DCH RL.]
  - [FDD If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The Node B may include the *Default Serving Grant in DTX Cycle 2* IE in the RADIO LINK RECONFIGURATION RESPONSE message for the new serving E-DCH RL.]

- [FDD - The Node B may include the *E-RGCH/E-HICH Channelisation Code* IE and/or the *E-HICH Signature Sequence* IE and/or the *E-RGCH Signature Sequence* IE or may alternatively include the *E-RGCH Release Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links in the Node B.]

#### [FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE, then:]

- [FDD If the *E-DCH FDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH HARQ Power Offset FDD* IE in the *E-DCH FDD Information To Modify* IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,iud}$ ) as defined in [10].]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message contains the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Bundling Mode Indicator* IE for an E-DCH MAC-d flow in the *E-DCH MAC-d Flow Specific Information* IE in the *E-DCH FDD Information To Modify* IE and the *Bundling Mode Indicator* IE is set to "Bundling" and the *E-TTI* IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the *E-DCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Reference Power Offset* IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Power Offsetfor Scheduling Info* IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-HICH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the *SixteenQAM UL Operation Indicator* IE.]
  - [FDD If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]
  - [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH DL Control Channel Grant Information* IE in the *E-DCH FDD Information To Modify* IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the *E-DCH RL ID* IE. The Node B shall then report the modified configuration which is used in the new configuration specified in the *E-DCH FDD DL Control Channel Information* IE for each E-DCH RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [FDD - E-DCH MAC-d Flow Addition/Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

#### [TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]
- [TDD The Node B shall allocate E-AGCH parameters [1.28Mcps TDD and E-HICH parameter] corresponding to the E-DCH and include the *E-AGCH Specific Information Response TDD* IE [1.28Mcps TDD and *E-HICH Specific Information Response TDD* IE]in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD If the *TNL QoS* IE is included for a MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

#### [TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information* IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-PUCH Information LCR* IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-TFCS Information TDD* IE, the Node B shall apply the beta parameters to the new configuration.]

#### [3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information* IE and *E-DCH Non-scheduled Grant Information TDD* IE if there are to be non-scheduled grants.]

#### [1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information LCR* IE and *E-DCH Non-scheduled Grant Information LCR TDD* IE if there are to be non-scheduled grants.]

#### [7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: *E-DCH Serving RL* IE, *E-PUCH Information* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information 7.68Mcps* IE and *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE if there are to be non-scheduled grants.]

#### [TDD - E-DCH MAC-d Flow Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *E-DCH MAC-d Flows To Add* or E-DCH *MAC-d Flows To Delete* IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then if the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Maximum Bit Rate LCR* IE in the *E-DCH Logical Channel Information* IE in the *E-DCH MAC-d Flows To Add* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

#### [3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - If the *E-DCH Non-scheduled Grant Information TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

#### [1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the *E-DCH Non-scheduled Grant Information LCR TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

#### [7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

### [TDD - E-DCH Modification:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information 7.68Mcps* IE], then:]

- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH TDD Maximum Bitrate* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Physical Layer Category LCR* IE or *Extended E-DCH Physical Layer Category LCR* IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH TDD Maximum Bitrate* 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the [3.84Mcps TDD *E-DCH TDD Information* IE] [7.68Mcps TDD *E-DCH TDD Information* 7.68Mcps IE] [1.28Mcps TDD *E-DCH TDD Information LCR* IE] includes the *E-DCH Processing Overload Level* IE, then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [TDD If the [3.84Mcps TDD E-DCH TDD Information IE] [1.28Mcps TDD E-DCH TDD Information LCR IE] [7.68Mcps TDD E-DCH TDD Information 7.68McpsIE] includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *Maximum Number of Retransmission for Scheduling Info* LCR IE and the *E-DCH Retransmission timer for Scheduling Info* LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information To Modify* IE, then:]

- [TDD If the *E-DCH TDD Information To Modify* IE contains a *E-DCH MAC-d Flow Specific Information* IE which includes the *Allocation/Retention Priority* IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]
- [1.28Mcps TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmissions timer.]
- [TDD If the *E-DCH TDD Information To Modify* IE message includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH MAC-d Flow Multiplexing List* IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Grant Type* IE, the Node B shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Add* or *E-DCH Logical Channel To Delete* IEs, the Node B shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *E-DCH Logical Channel To Modify* IE, the Node B shall use this information to modify the indicated logical channels:]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Priority Indicator* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Guaranteed Bit Rate* IE, the Node B shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes E-*DCH DDI Value* IE, the Node B shall apply the values in the new configuration.]
  - [1.28Mcps TDD If the *E-DCH Logical Channel To Modify* IE includes *MAC-es Maximum Bit Rate LCR* IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [TDD If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE in the *E-DCH TDD Information To Modify* IE, then the Node B shall use this value to determine whether MAC-e Reset is performed in the UE for sending the HARQ Failure Indication.]

#### [1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the *Power Control GAP* IE is included in the RADIO LINK RECONFIGURATION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

#### General

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IEs in the *HS-DSCH Information* IE, *HS-DSCH Information To Modify Unsynchronised* IE, *HS-DSCH MAC-d Flows To Add* IE, [FDD -*RL Specific E-DCH Information* IE] [TDD - *E-DCH MAC-d Flows to Add* IE, *E-DCH TDD Information to Modify* IE] or in the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the

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*Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

If the requested modifications are allowed by the Node B, the Node B has successfully allocated the required resources, and changed to the new configuration, it shall respond to the CRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], being added or any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] or MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included] being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], subclause 5.8.3.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow being added, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow being added and:]

- [FDD if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]
- [FDD if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

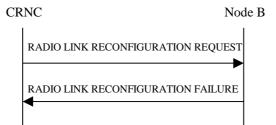
In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] in the set of coordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the Node B, the *Transport Layer Address* IE and the *Binding ID* IE [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has sent the RADIO LINK RECONFIGURATION RESPONSE message via the old Communication Control Port.

# 8.3.5.3 Unsuccessful Operation



#### Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be set-up, it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s), the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- CM not supported
- [FDD Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD MIMO not available]

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

# 8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

[FDD - If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the *RL Information* IE contains the *DL Code Information* IE and this IE includes *DL Scrambling Code* and *FDD DL Channelisation Code Number* IEs not matching the DL Channelisation code(s) already allocated to the Radio Link identified by *RL ID* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"], the Node B shall regard the Unsynchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs To Modify* IE or *DCHs To Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs To Modify* IE or *DCHs To Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-Static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE or *HS-DSCH MAC-d Flows To Delete* IE in addition to the *HS-DSCH Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information To Modify* IE, *HS-DSCH MAC-d Flows To Add* IE, *HS-DSCH MAC-d Flows To Delete* IE or *HS-PDSCH RL ID* IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information* IE and does not include the *HS-PDSCH RL-ID* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-PDSCH RL-ID* IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *HS-DSCH Information* IE, *HS-DSCH Information To Modify* IE, or *HS-DSCH MAC-d Flows To Add* IE and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-DSCH Information* IE and if the *Measurement Power Offset* IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH Information* IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink and if the *RL Information* IE contains the *DL Code Information* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message, but the *E-DPCH Information* IE is not present, or if any of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE, *E-TFCS Information* IE, *E-TTI* IE, *E-DPCCH Power Offset* IE, *HS-DSCH Configured Indicator* IE, are not present in the *E-DPCH Information* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If any the *HS-DSCH Configured Indicator* IE, of the *Maximum Set of E-DPDCHs* IE, *Puncture Limit* IE or *E-TTI* IE are present in the *E-DPCH Information* IE and the *E-DCH FDD Information* IE is not present in the RADIO LINK RECONFIGURATION REQUEST message, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes one of the *Not Used* IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and/or the *Serving E-DCH RL* IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *HS-PDSCH RL ID* IE and the *E-DPCH Information* IE which includes the *HS-DSCH Configured Indicator* IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE or *E-DCH MAC-d Flows To Delete* IE in addition to the *E-DCH FDD Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the *E-DCH FDD Information To Modify* IE, *E-DCH MAC-d Flows To Add* IE, *E-DCH MAC-d Flows To Delete* IE and the Node B Communication Context is not configured for E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH FDD Information To Modify* IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes *E-DCH FDD Information* IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION REQUEST message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: *E-DCH Serving RL* IE, [3.84Mcps TDD and 7.68Mcps - *E-PUCH Information* IE, *E-TFCS Information TDD* IE], [1.28Mcps TDD - *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE], *E-DCH MAC-d Flows to Add* IE, and [3.84Mcps TDD - *E-DCH TDD Information* IE] [1.28Mcps TDD - *E-DCH TDD Information LCR* IE] [7.68Mcps TDD - *E-DCH TDD Information* 7.68Mcps IE].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE in addition to the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE in addition to the *Continuous Packet Connectivity HS-SCCH less Information* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity HS-SCCH less Deactivate Indicator* IE while the Continuous Packet Connectivity HS-SCCH less configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity *DTX-DRX* configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DRX Information To Modify* IE in *Continuous Packet Connectivity DTX-DRX Information To Modify* IE while the Continuous Packet Connectivity DRX configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only" but no *Transport Format Set* IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the *DCHs to Modify* IE contains a *DCH Specific Info* IE which includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only" but no *Transport Format Set* IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the *Transport Bearer Not Requested Indicator* IE for a DCH but does not contain the corresponding *DCH ID* IE and the *Unidirectional DCH indicator* IE set to "Uplink DCH only" for the DCH in *DCH Information To Add* IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO or allowed to apply 64 QAM but is not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH in the *RL Specific DCH Information* IE but does not include the *DCH ID* IE for the DCH in the *DCHs to Add* IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the *Continuous Packet Connectivity DTX-DRX Information* IE but the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Bearer Not Requested Indicator* IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

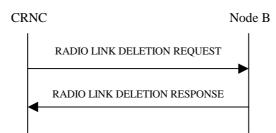
# 8.3.6 Radio Link Deletion

### 8.3.6.1 General

The Radio Link Deletion procedure is used to release the resources in a Node B for one or more established radio links towards a UE.

The Radio Link Deletion procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

## 8.3.6.2 Successful Operation



#### Figure 36: Radio Link Deletion procedure, Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon receipt of this message, the Node B shall delete the radio link(s) identified by the *RL ID* IE, *Node B Communication Context ID* IE and *CRNC Communication Context ID* IE and release all associated resources and respond to the CRNC with a RADIO LINK DELETION RESPONSE message.

[FDD - After deletion of the RL(s), the UL out-of-sync algorithm defined in ref. [10] shall for each of the remaining RL Set(s) use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE that are configured in the cells supporting the radio links of the RL Set and the UL in-sync algorithm defined in ref. [10] shall for each of the remaining RL Set(s) use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.]

### 8.3.6.3 Unsuccessful Operation

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# 8.3.6.4 Abnormal Conditions

If the RL indicated by the *RL ID* IE, *Node B Communication Context ID* IE and *CRNC Communication Context ID* IE does not exist, the Node B shall respond with the RADIO LINK DELETION RESPONSE message and use the *CRNC Communication Context ID* IE received in the RADIO LINK DELETION REQUEST message.

# 8.3.7 Downlink Power Control [FDD]

## 8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related UE-UTRAN connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

### 8.3.7.2 Successful Operation



Figure 37: Downlink Power Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is "Common", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Common". As long as the Power Balancing Adjustment Type of the Node B Communication Context is set to "Common", the Node B shall perform the power adjustment (see below) for all existing and future radio links associated with the context identified by the *Node B Communication Context ID* IE and use a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Individual". The Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL. If the Power Balancing Adjustment Type of the Node B Communication Context was set to "Common" before this message was received, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the *Power Adjustment Type* IE is "None", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "None" and the Node B shall suspend on going power adjustments for all radio links for the Node B Communication Context.

If the *Inner Loop DL PC Status* IE is present and set to "Active", the Node B shall activate inner loop DL power control for all radio links for the Node B Communication Context. If the *Inner Loop DL PC Status* IE is present and set to "Inactive", the Node B shall deactivate inner loop DL power control for all radio links for the Node B Communication Context according to ref. [10].

#### **Power Adjustment**

The power balancing adjustment shall be superimposed on the inner loop power control adjustment (see ref. [10]) if activated. The power balancing adjustment shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} + P_{P-CPICH} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE,  $P_{ref}$  is the value of the *DL Reference Power* IE,  $P_{P-CPICH}$  is the power used on the primary CPICH,  $P_{init}$  is the code power of the last slot of the previous adjustment period and r is given by the *Adjustment Ratio* IE. If the last slot of the previous adjustment period is within a transmission gap due to compressed mode,  $P_{init}$  shall be set to the same value as the code power of the slot just before the transmission gap.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the CRNC.

The power adjustments shall be started at the first slot of a frame with CFN modulo the value of *Adjustment Period* IE equal to 0 and shall be repeated for every adjustment period and shall be restarted at the first slot of a frame with CFN=0, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

### 8.3.7.3 Abnormal Conditions

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# 8.3.8 Dedicated Measurement Initiation

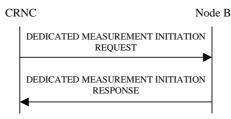
### 8.3.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on dedicated resources in a Node B.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except when the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC".

If the *Node B Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value "All NBCC", the Dedicated Measurement Initiation procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

# 8.3.8.2 Successful Operation



#### Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the DEDICATED MEASUREMENT INITIATION REQUEST message. Unless specified below the meaning of the parameters are given in other specifications.

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", this measurement request shall apply for all current and future Node B Communication Contexts controlled via the Communication Control Port on which the DEDICATED MEASUREMENT INITIATION REQUEST message was received. Otherwise, this measurement request shall apply for the requested Node B Communication Context ID only.

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement request shall be treated as a single measurement, despite applying to multiple contexts. This means that it may only be terminated or failed on "All NBCC".

If the *Node B Communication Context ID* IE equals the reserved value "All NBCC", the measurement shall be initiated only for those Node B Communication Contexts handling a mode (FDD, 3.84Mcps TDD, 7.68Mcps TDD or 1.28Mcps TDD) for which the concerned measurement is specified in [4] and [5]. The initiation of the measurement for a Node B Communication Context may be delayed until the Reconfiguration CFN has elapsed if either a Prepared Reconfiguration no longer exists but the Reconfiguration CFN has not yet elapsed.

If the Dedicated Measurement Object Type is indicated as being "RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Links.

[FDD - If the Dedicated Measurement Object Type is indicated as being "RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Link Sets.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the Node B Communication Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the Node B Communication Context, provided the measurement type is applicable to the respective DPCH.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If the *DPCH ID* IE or *DPCH ID* 7.68*Mcps* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE, *HS-SICH ID* IE, *DPCH ID* 7.68*Mcps* IE and no *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for one existing physical channel per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this physical channel.]

[TDD - If the *PUSCH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *HS-SICH Information* IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the *Dedicated Measurement Type* IE is set to "HS-SICH reception quality ", the Node B shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this Node B Communication Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the Node B shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message, the latter only in the case the *Report Characteristics* IE is set to "On Demand". The reported CFN shall be the CFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25].

[FDD - If the *Number Of Reported Cell Portions* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the value shall be used to determine how many *Cell Portion ID* IEs and *SIR Value* IEs shall be included in *Best Cell Portions* IE in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

#### **Report characteristics**

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to "On Demand" and if the *CFN* IE is not provided, the Node B shall return the result of the measurement immediately. If the *CFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report frequency. If the *CFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the

Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

#### **Higher layer filtering**

The *Measurement Filter Coefficient* IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

$$F_n = (1-a) \cdot F_{n-1} + a \cdot M_n$$

The variables in the formula are defined as follows

 $F_n$  is the updated filtered measurement result

 $F_{n-1}$  is the old filtered measurement result

 $M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

 $a = 1/2^{(k/2)}$ , where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter,  $F_0$  is set to  $M_1$  when the first measurement result from the physical layer measurement is received.

#### **Measurement Recovery Behavior:**

If the *Measurement Recovery Behavior* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery Support Indicator* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.9.2.

#### **Response message**

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the measurement request. The DEDICATED MEASUREMENT INITIATION RESPONSE message shall be sent even if the initiation is delayed for some Node B Communication Contexts due to an existing Prepared Reconfiguration or that the Reconfiguration CFN has not yet elapsed.

Only in the case where the *Report Characteristics* IE is set to "On Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the *Dedicated Measurement Object Type* IE containing the measurement result. [TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS-SICH ID* IE that indicates which HS-SICH was measured.]

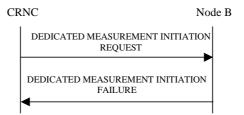
In the case where the *Node B Communication Context ID* IE is set to "All NBCC", the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE shall be set to the value "All CRNCCC", which is reserved for this purpose.

[FDD - If the *Alternative Format Reporting Indicator* IE is set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

#### **Interaction with Reset Procedure:**

If a measurement has been requested with the *Node B Communication Context ID* IE set to "All NBCC", the Node B shall terminate the measurement locally if either the CRNC or the Node B initiates the Reset procedure for the relevant Communication Control Port or the entire Node B.

## 8.3.8.3 Unsuccessful Operation



#### Figure 39: Dedicated Measurement Initiation procedure: Unsuccessful Operation

If the requested measurement cannot be initiated, the Node B shall send a DEDICATED MEASUREMENT INITIATION FAILURE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

In the case where the *Node B Communication Context ID* IE is set to "All NBCC" the *CRNC Communication Context ID* IE in the DEDICATED MEASUREMENT INITIATION FAILURE shall be set to the value "All CRNCCC", which is reserved for this purpose.

Typical cause values are as follows:

#### **Radio Network Layer cause**

- Measurement not supported for the object
- Measurement Temporarily not Available

#### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

## 8.3.8.4 Abnormal Conditions

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

Dedicated Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
SIR	Х	Х	Х	Х	Х	Х	Х	Х	
SIR Error	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Code Power	Х	Х	X	Х	Х	Х	Х	Х	
RSCP	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation	Х	Х	X	Х			Х	Х	
Round Trip Time	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation LCR	Х	Х	X	Х			Х	Х	
HS-SICH reception quality	Х	Х	X	Х			Х	Х	
Best Cell Portions	Х	Х							
Angle Of Arrival LCR	Х	Х							
Rx Timing Deviation 7.68Mcps	Х	Х	Х	Х			Х	Х	
Rx Timing Deviation 3.84Mcps Extended	Х	Х	X	Х			Х	Х	

#### Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

If the Dedicated Measurement Type received in the *Dedicated Measurement Type* IE is not defined in ref. [4] or [5] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

If the *CFN* IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic" or "On Demand", the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

# 8.3.9 Dedicated Measurement Reporting

### 8.3.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Dedicated Measurement Initiation procedure. The Node B may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link, as long as the Node B Communication Context exists.

### 8.3.9.2 Successful Operation



#### Figure 40: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the Node B shall initiate the Dedicated Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the Communication Control Port assigned to the Node B Communication Context. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the Node B may include measurement values for

multiple objects in the DEDICATED MEASUREMENT REPORT message. Unless specified below, the meaning of the parameters are given in other specifications.

The *Measurement ID* IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

[TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the *HS*-SICH ID IE that indicates which HS-SICH was measured.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref.[22] and [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [22] and [23]) and include the *Measurement Recovery Report Indicator* IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

[FDD - If the *Alternative Format Reporting Indicator* IE was set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message setting up the measurement to be reported, the Node B may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT REPORT message.]

# 8.3.9.3 Abnormal Conditions

# 8.3.10 Dedicated Measurement Termination

## 8.3.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Dedicated Measurement Initiation procedure.

The Dedicated Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except if the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC".

If the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC", the Dedicated Measurement Termination procedure may be initiated by the CRNC at any time.

# 8.3.10.2 Successful Operation



#### Figure 41: Dedicated Measurement Termination procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall terminate reporting of dedicated measurements corresponding to the received *Measurement ID* IE.

### 8.3.10.3 Abnormal Conditions

# 8.3.11 Dedicated Measurement Failure

## 8.3.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Dedicated Measurement Initiation procedure can no longer be reported. The Node B is allowed to initiate the DEDICATED MEASUREMENT FAILURE INDICATION message at any time after having sent the RADIO LINK SETUP RESPONSE message, as long as the Node B Communication Context exists.

# 8.3.11.2 Successful Operation



#### Figure 42: Dedicated Measurement Failure procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Communication Control Port assigned to the Node B Communication Context, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

If the failed measurement was initiated with the *Node B Communication Context ID* IE set to the reserved value "All NBCC" and the Node B has terminated the measurement reporting of the measurement corresponding to the Measurement ID indicated in the DEDICATED MEASUREMENT FAILURE INDICATION message, the *CRNC Communication Context ID* IE shall be set to the value "All CRNCCC".

# 8.3.11.3 Abnormal Conditions

# 8.3.12 Radio Link Failure

### 8.3.12.1 General

This procedure is used by the Node B to indicate a failure in one or more Radio Links [FDD - or Radio Link Sets][TDD or CCTrCHs within a Radio Link].

The Node B may initiate the Radio Link Failure procedure at any time after establishing a Radio Link.

# 8.3.12.2 Successful Operation



#### Figure 43: Radio Link Failure procedure, Successful Operation

When the Node B detects that one or more Radio Link(s) [FDD - or Radio Link Set(s)] [TDD - or CCTrCHs within a Radio Link] are no longer available, it sends the RADIO LINK FAILURE INDICATION message to the CRNC

indicating the failed Radio Link(s) or Radio Link Set(s) or CCTrCHs with the most appropriate cause values in the *Cause* IE. The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

If the failure concerns one or more individual Radio Link(s), the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE. [FDD - If the failure concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE.] [TDD - If the failure concerns only the failure of one or more CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the *CCTrCH ID* IE.]

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation of a [FDD - Radio Link Set] [TDD - Radio Link or CCTrCHs within a Radio Link] on the Uu interface, the RADIO LINK FAILURE INDICATION message shall be sent, with the *Cause* IE set to "Synchronisation Failure", when indicated by the UL out-of-sync algorithm defined in [10] and [21]. [FDD - The algorithms in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - When the Radio Link Failure procedure is used to indicate permanent failure in one or more Radio Link(s) / Radio Link Set(s) due to the occurrence of an UL or DL frame with more than one transmission gap caused by one or more compressed mode pattern sequences, the DL transmission shall be stopped and the RADIO LINK FAILURE INDICATION message shall be sent with the cause value "Invalid CM Settings". After sending the RADIO LINK FAILURE FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link(s)/Radio Link Set(s) from the Node B Communication Context or the Node B Communication Context itself.]

[FDD - When the Radio Link Failure Procedure is used to indicate E-DCH non serving cell processing issue, the RADIO LINK FAILURE INDICATION shall be sent, with the *Cause* IE set to "Not enough user plane processing resources".]

In the other cases, the Radio Link Failure procedure is used to indicate that one or more Radio Link(s)/Radio Link Set(s) are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link/Radio Link Set from the Node B Communication Context itself. When applicable, the retention priorities associated with the transport channels shall be used by the Node B to prioritise which Radio Link(s)/Radio Link Set(s) to indicate as unavailable to the CRNC.

**ETSI** 

Typical cause values are:

#### **Radio Network Layer Causes:**

- Synchronisation Failure
- Invalid CM settings

#### **Transport Layer Causes:**

- Transport Resources Unavailable

#### **Miscellaneous Causes:**

- Control Processing Overload
- HW Failure
- O&M Intervention
- Not enough user plane processing resources

# 8.3.12.3 Abnormal Conditions

# 8.3.13 Radio Link Restoration

#### 8.3.13.1 General

This procedure is used by the Node B to notify the achievement and re-achievement of uplink synchronisation of one or more [FDD - Radio Link Sets][TDD - Radio Links or CCTrCHs within a Radio Link] on the Uu interface.

The Node B may initiate the Radio Link Restoration procedure at any time after establishing a Radio Link.

#### 8.3.13.2 Successful Operation



Figure 44: Radio Link Restoration procedure, Successful Operation

The Node B shall send the RADIO LINK RESTORE INDICATION message to the CRNC when indicated by the UL synchronisation detection algorithm defined in ref. [10] and [21] [FDD -, or when the *Fast Reconfiguration Mode* IE has been included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B has detected that the UE has changed to the new configuration. The algorithm in ref. [10] shall use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set.] The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

[TDD - If the re-established Uu synchronisation concerns one or more individual Radio Links, the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE.] [TDD - If the re-established Uu synchronisation concerns one or more individual CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the *CCTrCH ID* IE.] [FDD - If the re-established Uu synchronisation concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE.]

[FDD - The Node B shall send the RADIO LINK RESTORE INDICATION message when the E-DCH processing issue condition has ceased.]

# 8.3.13.3 Abnormal Condition

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8.3.14 Compressed Mode Command [FDD]

#### 8.3.14.1 General

The Compressed Mode Command procedure is used to activate or deactivate the compressed mode in the Node B for one Node B Communication Context.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.14.2 Successful Operation

CR	NC	Node B
	COMPRESSED MODE COMMAND	

#### Figure 47: Compressed Mode Command procedure, Successful Operation

The procedure is initiated by the CRNC sending a COMPRESSED MODE COMMAND message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the *CM Configuration Change CFN* IE requested by the CRNC when receiving the COMPRESSED MODE COMMAND message from the CRNC. From that moment on, all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE repetitions (if present) shall be started when the indicated *TGCFN* IE elapses. The *CM Configuration Change CFN* IE in the *Active Pattern Sequence Information* IE and *TGCFN* IE for each sequence refer to the next coming CFN with that value.

If the values of the *CM Configuration Change CFN* IE and the *TGCFN* IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the *CM Configuration Change CFN* IE.

If the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.

#### 8.3.14.3 Abnormal Conditions

[FDD – If the concerned Node B Communication Context is not configured to use F-DPCH in the downlink and if a transmission gap pattern sequence is activated with an SF/2 downlink compressed mode method and for any Radio Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link Failure procedure with the cause value "Invalid CM Settings'.]

# 8.3.15 Downlink Power Timeslot Control [TDD]

### 8.3.15.1 General

The purpose of this procedure is to enable the Node B to use the indicated DL Timeslot ISCP values when deciding the DL TX Power for each timeslot.

The Downlink Power Timeslot Control procedure can be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Timeslot Control procedure shall no longer be initiated.

### 8.3.15.2 Successful Operation



Figure 47A: Downlink Power Timeslot Control procedure, Successful Operation

The procedure is initiated by the CRNC sending a DL POWER TIMESLOT CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall use the indicated DL Timeslot ISCP value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.

If the *Primary CCPCH RSCP Delta* IE is included, the Node B shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [23], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *Primary CCPCH RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the Node B shall assume that the reported value is in the non-negative range as per [23], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the *RSCP Delta* IE is not included and the *Primary CCPCH RSCP* IE is included, the Node B shall assume that the reported value is in the non-negative range as per [23], and the value is equal to the *Primary CCPCH RSCP* IE. The Node B should use the indicated value for HS-DSCH scheduling and transmit power adjustment.

# 8.3.15.3 Abnormal Conditions

# 8.3.16 Radio Link Pre-emption

## 8.3.16.1 General

This procedure is started by the Node B when resources need to be freed.

The Node B may initiate the Radio Link Pre-emption procedure at any time after establishing a Radio Link.

# 8.3.16.2 Successful Operation

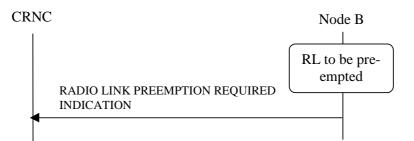


Figure 47B: Radio Link Pre-emption procedure, Successful Operation

When the Node B detects that a one or more Radio Links should be pre-empted (see Annex A), it shall send the RADIO LINK PREEMPTION REQUIRED INDICATION message to the CRNC using the Communication Control Port assigned to the concerned Node B Communication Context.

If all Radio Links for a CRNC Communication Context ID should be pre-empted, the *RL Information* IE shall be omitted. If one or several but not all Radio Links should be pre-empted for a CRNC Communication Context, the Radio Links that should be pre-empted shall be indicated in the *RL Information* IE. The Radio Link(s) that should be pre-empted should be deleted by the CRNC.

# 8.3.16.3 Abnormal Conditions

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# 8.3.17 Bearer Re-arrangement

# 8.3.17.1 General

This procedure is started by the Node B when Bearers for the Node B Communication Context need to be rearranged.

The Node B may initiate the Bearer Rearrangement procedure at any time after establishing a Radio Link.

## 8.3.17.2 Successful Operation

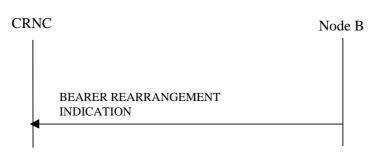


Figure 47C: Bearer Re-arrangement Indication, Successful Operation

When the Node B detects that a signaling bearer or a transport bearer or both need to be re-arranged for the Node B Communication Context, it shall send the BEARER REARRANGEMENT INDICATION message to the CRNC. The message shall use the Communication Control Port assigned for this Node B Communication Context.

If the signaling bearer for the control of the Node B Communication Context needs to be rearranged, the *Signalling Bearer Requested Indicator* IE shall be included in the BEARER REARRANGEMENT INDICATION message.

If the transport bearer for a transport channel needs to be rearranged, the ID of the transport channel for which a new transport bearer is required, shall be included in the BEARER REARRANGEMENT INDICATION message.

## 8.3.17.3 Abnormal Conditions

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# 8.3.18 Radio Link Activation

### 8.3.18.1 General

This procedure is used to activate or de-activate the DL transmission on the Uu interface regarding selected RLs.

### 8.3.18.2 Successful Operation



#### Figure 47D: Radio Link Activation procedure

This procedure is initiated by sending the RADIO LINK ACTIVATION COMMAND message from the CRNC to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context. Upon reception, the Node B shall for each concerned RL:

- if the Delayed Activation Update IE indicates "Activate":
  - if the Activation Type IE equals "Unsynchronised":
    - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].]
    - [TDD start transmission on the new RL immediately as specified in [16].]

- if the Activation Type IE equals "Synchronised":
  - [FDD start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16], however never before the CFN indicated in the *Activation CFN* IE.]
  - [TDD start transmission on the new RL at the CFN indicated in the *Activation CFN* IE as specified in [16].]
- [FDD the Node B shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or power balancing is activated. During this period no inner loop power control shall be performed and, unless activated by the DL POWER CONTROL REQUEST message, no power balancing shall be performed. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and downlink power balancing adjustments (see subclause 8.3.7).]
- [TDD the Node B shall apply the power level indicated in the *Initial DL Tx Power* IE to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu interface is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]
- [FDD if the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the Node B may use this information to speed up the detection of UL synchronisation on the Uu interface.]
- [FDD if the *First RLS Indicator* IE is included, it indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC Pattern 01 Count* IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]
- if the *Delayed Activation Update* IE indicates "Deactivate":
  - stop DL transmission immediately, if the *Deactivation Type* IE equals "Unsynchronised", or at the CFN indicated by the *Deactivation CFN* IE, if the *Deactivation Type* IE equals "Synchronised".

# 8.3.18.3 Abnormal Conditions

[FDD - If the *Delayed Activation Update* IE is included in the RADIO LINK ACTIVATION COMMAND message, it indicates "Activate" and the *First RLS Indicator* IE is not included, the Node B shall initiate the Error Indication procedure.]

# 8.3.19 Radio Link Parameter Update

# 8.3.19.1 General

The Radio Link Parameter Update procedure is excuted by the Node B when the update of HS-DSCH [FDD - or E-DCH] related radio link parameter values are needed on the Node B side. With this procedure, Node B can suggest some HS-DSCH [FDD - or E-DCH] related Radio Link Parameter values to RNC.

The Radio Link Parameter Update procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.19.2 Successful Operation



Figure 48: Radio Link Parameter Update Indication, Successful Operartion

The Node B initiates the Radio Link Parameter Update procedure by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the CRNC. The message contains suggested value(s) of the HS-DSCH [FDD - or E-DCH] related parameter(s) that should be reconfigured on the radio link(s).

If the Node B needs to update HS-DSCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD - *HS-DSCH FDD Update Information* IE] [TDD - *HS-DSCH TDD Update Information* IE].

If the Node B needs to allocate new HS-SCCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator* IE.

[FDD - If the Node B needs to allocate new HS-PDSCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-PDSCH Code Change Indicator* IE.]

[FDD - If the Node B needs to update the CQI Feedback Cycle k, CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *CQI Feedback Cycle k* IE, *CQI Repetition Factor* IE, *ACK-NACK Repetition Factor* IE, *CQI Power Offset* IE, *ACK Power Offset* IE and/or *NACK Power Offset* IE.]

[TDD - If the Node B needs to update the TDD ACK-NACK Power Offset the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *TDD ACK-NACK Power Offset* IE.]

[FDD - If the Node B needs to update E-DCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *E-DCH FDD Update Information* IE.]

[FDD - If the Node B needs to update the HARQ process allocation for non-scheduled transmission and/or HARQ process allocation for scheduled Transmission, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the *HARQ Process Allocation For 2ms Non-Scheduled Transmission* Grant IE for the concerned MAC-d Flows and/or *HARQ Process Allocation For 2ms Scheduled Transmission* Grant IE.]

[FDD - If the Node B needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH DL Control Channel Change Information* IE.]

8.3.19.3 Abnormal Conditions

-

# 8.4 Error Handling Procedures

- 8.4.1 Error Indication
- 8.4.1.1 General

The Error Indication procedure is initiated by a node in order to report detected errors in one incoming message, provided they cannot be reported by an appropriate response message.

# 8.4.1.2 Successful Operation

When the conditions defined in subclause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node.

In case the Error Indication procedure was triggered by a dedicated procedure, the following applies:

- When the ERROR INDICATION message is sent from a Node B to its CRNC, the *CRNC Communication Context ID* IE shall be included in the message if the corresponding Node B Communication Context, addressed by the *Node B Communication Context ID* IE which was received in the message triggering the Error Indication procedure, exists;
- When the ERROR INDICATION message is sent from a CRNC to a Node B, the *Node B Communication Context ID* IE shall be included in the message if the corresponding CRNC Communication Context, addressed by the *CRNC Communication Context ID* IE which was received in the message triggering the Error Indication procedure, exists;
- When the message triggering the Error Indication procedure is received in the Node B and there is no Node B Communication Context as indicated by the *Node B Communication Context ID* IE, the Node B shall include the unknown *Node B Communication Context ID* IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.
- When the message triggering the Error Indication procedure is received in the CRNC and there is no CRNC Communication Context as indicated by the *CRNC Communication Context ID* IE, the CRNC shall include the unknown *CRNC Communication Context ID* IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

The ERROR INDICATION message shall include either the *Cause* IE, or the *Criticality Diagnostics* IE or both the *Cause* IE and the *Criticality Diagnostics* IE.

Typical cause values for the ERROR INDICATION message are:

#### **Protocol Causes:**

- Transfer Syntax Error
- Abstract Syntax Error (Reject)
- Abstract Syntax Error (Ignore and Notify)
- Message not Compatible with Receiver State
- Unspecified

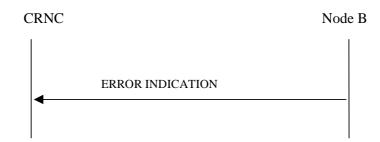
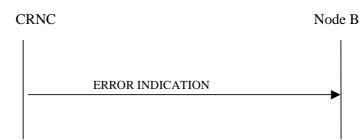


Figure 49: Error Indication procedure (Node B to CRNC): Successful Operation



### Figure 50: Error Indication procedure (CRNC to Node B), Successful Operation

### 8.4.1.3 Abnormal Conditions

9 Elements for NBAP communication

# 9.1 Message Functional Definition and Contents

# 9.1.1 General

Subclause 9.1 presents the contents of NBAP messages in tabular format. The corresponding ASN.1 definition is presented in subclause 9.3. In case there is contradiction between the tabular format in subclause 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.

NOTE: The messages have been defined in accordance to the guidelines specified in ref. [26].

# 9.1.2 Message Contents

## 9.1.2.1 Presence

An information element can be of the following types:

М	IEs marked as Mandatory (M) shall always be included in the message.
0	IEs marked as Optional (O) may or may not be included in the message.
	IEs marked as Conditional (C) shall be included in a message only if the condition is satisfied. Otherwise the IE shall not be included.

In case of an Information Element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. The presence field of the Information Elements inside one group defines if the Information Element is mandatory, optional or conditional if the group is present.

# 9.1.2.2 Criticality

Each Information Element or Group of Information Elements may have a criticality information applied to it. Following cases are possible:

-	No criticality information is applied explicitly.
YES	Criticality information is applied. "YES" is usable only for non-repeatable information elements.
GLOBAL	The information element and all its repetitions together have one common criticality information.
	"GLOBAL" is usable only for repeatable information elements.
EACH	Each repetition of the information element has its own criticality information. It is not allowed to assign different criticality values to the repetitions. "EACH" is usable only for repeatable information elements.

# 9.1.2.3 Range

The Range column indicates the allowed number of copies of repetitive IEs.

# 9.1.2.4 Assigned Criticality

This column provides the actual criticality information as defined in subclause 10.3.2, if applicable.

# 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

# 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	2000112001		Cintoanty
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	-
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE Common Physical Channel To Be Configured	М				YES	ignore
>Secondary CCPCH						
>>Secondary CCPCH		1			_	
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>FDD SCCPCH Offset	М		9.2.2.15	Corresponds to [7]: s-ссрсн,к	_	
>>>DL Scrambling Code	C-PCH		9.2.2.13		_	
>>>FDD DL Channelisation Code Number	Μ		9.2.2.14		-	
>>>TFCS	М		9.2.1.58	For the DL.	_	
>>>Secondary CCPCH Slot Format	Μ		9.2.2.43	If Extended Secondary CCPCH Slot Format IE is present, this IE shall be ignored	_	
>>>TFCI Presence	C- SlotFormat		9.2.1.57	Refer to TS [7]	_	
>>>Multiplexing Position	М		9.2.2.23		_	
>>>Power Offset Information		1			—	
>>>>PO1	Μ		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>>>PO3	Μ		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>>>STTD Indicator	М		9.2.2.48		_	
>>>FACH Parameters		0 <maxno ofFACHs&gt;</maxno 			GLOBAL	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>>Transport Format Set	М		9.2.1.59	For the DL.	_	
>>>>ToAWS	М		9.2.1.61		-	
>>>ToAWE	М		9.2.1.60		_	
>>>>Max FACH Power	Μ		DL Power 9.2.1.21	Maximum allowed power on the FACH.	_	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment	YES	ignore

				with ALCAP.		
>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Broadcast Reference	0		9.2.1.5C		YES	ignore
>>>IP Multicast Indication	0		9.2.1.108		YES	ignore
>>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>>Transport Format Set	М		9.2.1.59	For the DL.	-	
>>>ToAWS	М		9.2.1.61		_	1
>>>ToAWE	M		9.2.1.60		_	
>>>PCH Power	М		DL Power 9.2.1.21		_	
>>>>PICH		1			_	
Parameters						
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>>>PICH Power	М		9.2.1.49A		_	
>>>>PICH Mode	М		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	М		9.2.2.48		-	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>MICH Parameters		01			YES	reject
>>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>>MICH Power	М		PICH		_	

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			Power			
			9.2.1.49A			
>>>>MICH Mode	М		9.2.2.21D	Number of NI per frame	-	
>>>STTD Indicator	М		9.2.2.48		_	
>>>FDD S-CCPCH	0		9.2.2.14B		YES	reject
Frame Offset	-		-			- <b>,</b>
>>>Modulation Power Offset	0		9.2.2.91	Used for MBSFN operation only	YES	reject
>>>Extended Secondary CCPCH Slot Format	0		9.2.2.92	Used for MBSFN operation only	YES	reject
>PRACH						
>>PRACH		1			_	
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>Scrambling Code Number	М		9.2.2.42		-	
>>>TFCS	М		9.2.1.58	For the UL.	_	
>>>Preamble	M		9.2.2.31		_	
Signatures			0.2.2.01			
>>>Allowed Slot		1 <maxno< td=""><td>ļ</td><td></td><td>_</td><td></td></maxno<>	ļ		_	
Format Information		ofSlotForm atsPRACH				
		>	0.0.0.7			
>>>>RACH Slot Format	M		9.2.2.37		_	
>>>RACH Sub Channel	М		9.2.2.38		-	
Numbers						
>>>Puncture Limit	М		9.2.1.50	For the UL	_	
>>>Preamble Threshold	М		9.2.2.32		_	
>>>RACH Parameters		1			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>>Transport Format Set	М		9.2.1.59	For the UL.	-	
>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>AICH Parameters		1			_	
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>AICH Transmission Timing	М		9.2.2.1		-	
	М					

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Channelisation Code Number					
>>>>AICH Power	М	9.2.2.D		_	
>>>STTD Indicator	Μ	9.2.2.48		_	
>Not Used		NULL	This choice shall not be used. Reject procedure if received.		

Condition	Explanation
SlotFormat	The IE shall be present if the Secondary CCPCH Slot Format IE is set to any of the values from 8 to 17.
РСН	The IE shall be present if the PCH Parameters IE is not present.

Range Bound	Explanation
maxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary
	ССРСН
maxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

# 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE Common Physical Channel To Be Configured	М				YES	ignore
>Secondary CCPCHs						
>>SCCPCH CCTrCH ID	М		CCTrCH ID 9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	_	
>>TFCS	М		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	-	
>>TFCI Coding	М		9.2.3.22		_	
>>Puncture Limit	М		9.2.1.50		_	
>>CHOICE HCR or LCR	М			See note 1	_	
or 7.68 Mcps				below		
>>>3.84Mcps TDD					_	
>>>Secondary CCPCH		1 <maxno ofSCCPC Hs&gt;</maxno 		See note 2 below	GLOBAL	reject
>>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>>TDD Channelisation Code	М		9.2.3.19		_	
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble Shift And Burst Type	М		9.2.3.7		-	
>>>>TDD Physical Channel Offset	М		9.2.3.20		_	
>>>>Repetition Period	М		9.2.3.16		_	
>>>>Repetition Length	М		9.2.3.15		_	
>>>>SCCPCH Power	М		DL Power 9.2.1.21		_	
>>>>TFCI Presence	0		9.2.1.57		YES	notify
>>>1.28Mcps TDD					_	
>>>Secondary CCPCH LCR		1 <maxno ofSCCPC HsLCR&gt;</maxno 		See note 2 below	GLOBAL	reject
>>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>>TDD Channelisation Code	М		9.2.3.19a		-	

LCR						
>>>>Time Slot	М		9.2.3.24A			
LCR	101		5.2.0.247			
>>>>Midamble Shift LCR	М		9.2.3.7A	For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE.	_	
>>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>>Repetition Period	М		9.2.3.16		-	
>>>>Repetition Length	М		9.2.3.15		-	
>>>>SCCPCH Power	М		DL Power 9.2.1.21		-	
>>>>SCCPCH Time Slot Format LCR	М		TDD DL DPCH Time Slot Format LCR 9.2.3.19D		-	
>>>>MBSFN Special Time Slot LCR	0		Time Slot LCR Extension 9.2.3.24B	Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The <i>Time Slot</i> <i>LCR</i> IE for the Secondary CCPCH LCR shall be ignored if this IE appears.	YES	ignore
>>>7.68 Mcps TDD					_	
>>>>Secondary CCPCH 7.68 Mcps		1 <maxno ofSCCPC Hs768&gt;</maxno 			GLOBAL	reject
>>>>Common Physical Channel ID 768Mcps	Μ		9.2.3.33		_	
>>>>TDD Channelisation Code 7.68Mcps	M		9.2.3.34		_	
>>>>Time Slot	М		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		-	
>>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>>Repetition	Μ		9.2.3.16		_	

Period						
>>>>Repetition	М		9.2.3.15		_	
Length						
>>>>SCCPCH	М		DL Power		-	
Power			9.2.1.21			
>>FACH Parameters		0 <maxno ofFACHs&gt;</maxno 			GLOBAL	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	
>>>FACH CCTrCH ID	М		CCTrCH ID 9.2.3.3		_	
>>>Transport Format Set	М		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		_	
>>>ToAWE	M		9.2.1.60		_	
>>>Max FACH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>Broadcast Reference	0		9.2.1.5C		YES	ignore
>>>IP Multicast Indication	0		9.2.1.108		YES	ignore
>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	10,000
>>>PCH CCTrCH ID	M		CCTrCH ID		-	
>>>Transport Format Set	М		9.2.3.3 9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		_	
>>>ToAWE	M	1	9.2.1.60		_	
>>>CHOICE HCR or	M		0.2.1.00	See note 1	-	
LCR or 7.68Mcps >>>>3.84Mcps TDD		+		below	<u> </u>	
>>>>PICH	1	01			YES	reject
Parameters						
>>>>>Common Physical Channel ID	Μ		9.2.1.13		_	
>>>>TDD Channelisation Code	М		9.2.3.19		_	
>>>>Time Slot	М		9.2.3.23		_	

>>>>>Midamble Shift And Burst Type	М		9.2.3.7	-	
>>>>TDD Physical Channel Offset	М		9.2.3.20	_	
>>>>Repetition Period	М		9.2.3.16	_	
>>>>Repetition Length	М		9.2.3.15	_	
>>>>Paging Indicator Length	М		9.2.3.8	-	
>>>>PICH Power	М		9.2.1.49A	_	
>>>1.28Mcps TDD					
>>>>PICH		01		YES	reie et
Parameters LCR		01		TES	reject
>>>>Common Physical Channel ID	М		9.2.1.13	-	
>>>>>TDD Channelisation Code LCR	М		9.2.3.19a	-	
>>>>>Time Slot LCR	М		9.2.3.24A	_	
>>>>>Midamble Shift LCR	М		9.2.3.7A	-	
>>>>TDD Physical Channel Offset	М		9.2.3.20	-	
>>>>Repetition Period	М		9.2.3.16	-	
>>>>Repetition Length	М		9.2.3.15	-	
>>>>Paging Indicator Length	М		9.2.3.8	-	
>>>>PICH Power	М		9.2.1.49A	-	
>>>>Second TDD Channelisation Code LCR	M		TDD Channelisat ion Code LCR 9.2.3.19a	_	
>>>>>TSTD Indicator	0		9.2.1.64	YES	reject
>>>7.68Mcps TDD		1		_	
>>>>PICH Parameters		01		YES	reject
>>>>Common Physical Channel ID 768Mcps	M		9.2.3.33	-	
>>>>>TDD Channelisation Code 7.68Mcps	М		9.2.3.34	-	
>>>>Time Slot	М		9.2.3.23	 _	
>>>>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35	-	
>>>>TDD	Μ	+	0.2.2.20		
22222	IVI	1	9.2.3.20	_	

	[	1	1	1		
Physical Channel Offset						
>>>>Repetition Period	М		9.2.3.16		-	
>>>>Repetition Length	М		9.2.3.15		-	
>>>>Paging Indicator Length	М		9.2.3.8		-	
>>>>>PICH Power	М		9.2.1.49A		-	
>>>PCH Power	0		DL Power 9.2.1.21	Applicable to 1.28Mcps TDD only	YES	reject
>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>TSTD Indicator	0		9.2.1.64		YES	reject
>>MICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		_	
>>>Notification Indicator Length	М		9.2.3.7Aa		-	
>>>MICH Power	M		PICH Power 9.2.1.49A		-	
>>>CHOICE HCR or LCR or 7.68 Mcps	М				-	
>>>3.84Mcps TDD						
>>>>MICH Parameters HCR		1			–	
>>>>>TDD Channelisation Code	M		9.2.3.19		_	
>>>>Time Slot	М		9.2.3.23		—	
>>>>>Midamble Shift And Burst Type	Μ		9.2.3.7		-	
>>>>1.28Mcps TDD		1	1	1		
LOIVICPS IDD			1		_	
>>>>MICH Parameters LCR		1				

Code LCR						
>>>>>Time Slot LCR	М		9.2.3.24A		-	
>>>>Midamble Shift LCR	Μ		9.2.3.7A	For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE.	_	
>>>>Second TDD Channelisation Code LCR	М		TDD Channelisat ion Code LCR 9.2.3.19a		-	
>>>>>TSTD Indicator	М		9.2.1.64		-	
>>>>>MBSFN Special Time Slot LCR	0		Time Slot LCR Extension 9.2.3.24B	Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The <i>Time Slot</i> <i>LCR</i> IE for the MICH parameters LCR shall be ignored if this IE appears.	YES	ignore
>>>7.68 Mcps TDD						
>>>>MICH Parameters 7.68 Mcps		1			-	
>>>>>TDD Channelisation Code 7.68Mcps	Μ		9.2.3.34		-	
>>>>>Time Slot	М		9.2.3.23		-	
>>>>>Midamble Shift And Burst Type 7.68Mcps	Μ		9.2.3.35		_	
>>Modulation	0		9.2.1.87	Applicable to 3.84Mcps TDD and 7.68Mcps TDD in MBSFN operation only	YES	reject
>>Time Slot Configuration LCR		07		Applicable to 1.28Mcps TDD for MBSFN. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>>>Time Slot LCR	М		9.2.3.24A		-	
>>>Time Slot Parameter ID	Μ		Cell Parameter ID 9.2.3.4		_	
>>UARFCN	0		9.2.1.65	Corresponds to	YES	reject

	1	1	1	-		
				Nt [15]		
				This IE		
				indicates the		
				frequency of		
				the Secondary		
				Frequency on		
				which SCCPCH		
				is configured.		
				Applicable to		
				1.28Mcps TDD		
				MBSFN. Not		
				Applicable to		
				3.84Mcps TDD		
				or 7.68Mcps		
				TDD.		
>PRACH						
>>CHOICE HCR or LCR	М			See note 1		
	IVI				-	
or 7.68 Mcps				below		
>>>3.84Mcps TDD		$\left  \right $			—	
>>>>PRACH		1			YES	reject
>>>>Common	М		9.2.1.13		-	
Physical Channel ID			L			
>>>>TFCS	М		9.2.1.58		-	
>>>>Time Slot	М		9.2.3.23		_	
>>>>TDD	M		9.2.3.19		_	
Channelisation Code						
			9.2.3.6		_	
>>>>Max PRACH	М		9.2.5.0		_	
Midamble Shifts						
>>>>PRACH	М		9.2.3.14		-	
Midamble						
>>>>RACH		1			YES	reject
>>>>Common	М		9.2.1.14		-	
Transport Channel						
ID						
>>>>>Transport	М		9.2.1.59	For the UL	_	
Format Set						
>>>>>Binding ID	0	1	9.2.1.4	Shall be	YES	ignore
			5.2.1.4		125	ignore
				ignored if		
				bearer		
				establishment		
				with ALCAP.		
>>>>>Transport	0		9.2.1.63	Shall be	YES	ignore
Layer Address				ignored if		~
,				bearer		
				establishment		
				with ALCAP.		
>>>>>TNL QoS	0	+	0.2.1.504		YES	ignara
>>>>> INL Q05	0		9.2.1.58A	Shall be	1ES	ignore
				ignored if		
				bearer		
				establishment		
				with ALCAP.		
>>>1.28Mcps TDD					_	
>>>>PRACH LCR		1 <maxno< td=""><td> </td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofPRACHL				-
		CRs>				
>>>>Common	М		9.2.1.13		_	
Physical Channel ID			_			
		+	9.2.1.58		_	
>>>>TFCS	M		97100			

	1		1	1		
>>>>Time Slot LCR	Μ		9.2.3.24A		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		_	
>>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>>RACH		1			YES	reject
>>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>>Transport Format Set	Μ		9.2.1.59	For the UL	_	
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>UARFCN	0		9.2.1.65	Corresponds to Nt [15]. This IE indicates the frequency of the secondary frequency on which PRACH to be set up. See note 3 below.	YES	reject
>>>7.68 Mcps TDD					_	
>>>>PRACH		1			YES	reject
>>>>Common Physical Channel ID 768Mcps	M		9.2.3.33		_	
>>>>TFCS	М		9.2.1.58		_	
>>>>Time Slot	М		9.2.3.23		_	
>>>>TDD Channelisation Code 7.68Mcps	Μ		9.2.3.34		-	
>>>>Max PRACH Midamble Shifts	M		9.2.3.6		-	
>>>>PRACH Midamble	М		9.2.3.14		-	
>>>>RACH		1			YES	reject
>>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>>Transport	М		9.2.1.59	For the UL	-	

Format Set						
>>>>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>FPACH		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>TDD Channelisation Code LCR	М		9.2.3.19a		-	
>>>Time Slot LCR	Μ		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>Max FPACH Power	М		9.2.3.5E		_	
>>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of Secondary Frequency on which FPACH to be set up.	YES	reject
>PLCCH				1.28 Mcps TDD only	YES	ignore
>>Max PLCCH Power	М		DL Power 9.2.1.21		_	
>>Common Physical Channel ID	М		9.2.1.13		_	
>TDD Channelisation Code	М		9.2.3.19		-	
>>Time Slot LCR	М		9.2.3.24A		_	
>>Midamble Shift LCR	M		9.2.3.7A		_	
>E-RUCCH				3.84Mcps TDD only	YES	ignore
>>Common Physical Channel ID	М		9.2.1.13		-	
>>Time Slot	М		9.2.3.23		_	
>>TDD Channelisation Code	М		9.2.3.19		-	
>>Max E-RUCCH Midamble Shifts	М		9.2.3.44		_	
>>E-RUCCH Midamble	Μ		9.2.3.14		-	
>E-RUCCH 7.68Mcps				7.68Mcps TDD only	YES	ignore

>>Common Physical Channel ID 7.68Mcps	М	9.2.3.33	_	
>>Time Slot	М	9.2.3.23	_	
>>TDD Channelisation Code 7.68Mcps	М	9.2.3.34	-	
>>Max E-RUCCH Midamble Shifts	М	9.2.3.44	-	
>>E-RUCCH Midamble	М	9.2.3.14	_	

- Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.
- Note 2: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs / maxnoofSCCPCHsLCR are represented by separate ASN.1 structures.
- Note 3: The configured PRACH resources on secondary frequency shall only be used for E-DCH random access.

Range Bound	Explanation
maxnoofSCCPCHs	Maximum number of Secondary CCPCHs per CCTrCH for 3.84Mcps TDD
maxnoofSCCPCHsLCR	Maximum number of Secondary CCPCHs per CCTrCH for 1.28Mcps TDD
maxnoofSCCPCHs768	Maximum number of Secondary CCPCHs per CCTrCH for 7.68 Mcps TDD
maxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary CCPCH
maxnoofPRACHLCRs	Maximum number of PRACHs LCR that can be defined on a RACH for 1.28Mcps TDD

# 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
FACH Parameters Info		0 <maxno ofFACHs&gt;</maxno 		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	М		Common Transport Channel Information Response 9.2.1.14A		-	
PCH Parameters	0		Common Transport Channel Information Response 9.2.1.14A	The PCH Parameters may be combined with FACH Parameters	YES	ignore
RACH Parameters	0		Common Transport Channel Information Response 9.2.1.14A	The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation
maxnoofFACHs	Maximum number of FACHs that can be defined on a Secondary
	CCPCH[FDD] / a group of Secondary CCPCHs [TDD]

## 9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	_
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	_
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

#### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
CHOICE Common Physical	М				YES	reject
Channel To Be Configured						
>Secondary CCPCH						
>>FACH Parameters		0 <maxfa CHCell&gt;</maxfa 			GLOBAL	reject
>>>Common Transport Channel ID	Μ		9.2.1.14		_	
>>>Max FACH Power	0		DL Power 9.2.1.21	Maximum allowed power on the FACH.	_	
>>>ToAWS	0		9.2.1.61		_	
>>>ToAWE	0		9.2.1.60		_	
>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer reconfiguration with ALCAP.	YES	ignore
>>PCH Parameters		01			YES	reject
>>>Common Transport Channel ID	М		9.2.1.14		-	,   ,
>>>PCH Power	0		DL Power 9.2.1.21	Power to be used on the PCH.	_	
>>>ToAWS	0		9.2.1.61		_	
>>>ToAWE	0		9.2.1.60		_	
>>>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer reconfiguration with ALCAP.	YES	ignore
>>PICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		_	
>>>PICH Power	0		9.2.1.49A		_	
>>MICH Parameters		01			YES	reject
>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>MICH Power	0		PICH Power 9.2.1.49A		_	
>PRACH						
>>PRACH Parameters		0 <maxp RACHCell &gt;</maxp 			GLOBAL	reject

>>>Common Physical Channel ID	М		9.2.1.13		-	
>>>Preamble	0		9.2.2.31		-	
Signatures						
>>>Allowed Slot		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Format Information		ofSlotForm				
		atsPRACH				
		>				
>>>RACH Slot	М		9.2.2.37		_	
Format						
>>>RACH Sub Channel	0		9.2.2.38		_	
Numbers	-					
>>>TNL QoS	0		9.2.1.58A	Shall be	YES	ignore
	Ũ		0.2.1.00/	ignored if	120	ignore
				bearer		
				reconfiguration		
				with ALCAP.		
>>AICH Parameters				WITT ALCAP.		
>>AICH Parameters		0 <maxp< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxp<>			GLOBAL	reject
		RACHCell				
		>				
>>>Common Physical	М		9.2.1.13		-	
Channel ID						
>>>AICH Power	0		9.2.2.D		-	
>Not Used			NULL	This choice		
				shall not be		
				used. Reject		
				procedure if		
				received.		

Range Bound	Explanation
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
maxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

# 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	Μ		9.2.1.9		YES	reject
Configuration Generation ID	Μ		9.2.1.16		YES	reject
Secondary CCPCH		01			YES	reject
Parameters						

0.07.01115		1	T	1	<u>г                                    </u>	
>CCTrCH ID	Μ		9.2.3.3	For DL	-	
				CCTrCH		
				supporting one		
				or several		
				Secondary		
				CCPCHs		
>Secondary CCPCHs To		0 <maxno< td=""><td></td><td>See note 1</td><td>GLOBAL</td><td>reject</td></maxno<>		See note 1	GLOBAL	reject
Be Configured		ofSCCPC		below		
		Hs>				
>>Common Physical	М		9.2.1.13		_	
Channel ID						
>>SCCPCH Power	0		DL power		_	
			9.2.1.21			
PICH Parameters		01			YES	reject
>Common Physical	М		9.2.1.13		_	
Channel ID						
>PICH Power	0		9.2.1.49A		_	
FACH Parameters		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofFACHs>				-
>Common Transport	М		9.2.1.14		_	
Channel ID						
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60			
>Max FACH Power	0		DL Power	Applicable to	YES	reject
			9.2.1.21	1.28Mcps TDD only		- <b>,</b>
>TNL QoS	0		9.2.1.58A	Shall be	YES	ignore
				ignored if		U
				bearer		
				reconfiguration		
PCH Parameters		01		with ALCAP.	YES	reject
>Common Transport	M	01	9.2.1.14			Tejeci
Channel ID	IVI		9.2.1.14		—	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>PCH Power	0		DL Power	Applicable to	YES	reject
			9.2.1.21	1.28Mcps TDD only	TES	Tejeci
>TNL QoS	0	1	9.2.1.58A	Shall be	YES	ignore
	-			ignored if		3
				bearer		
				reconfiguration		
				with ALCAP.		
FPACH Parameters		01		Mandatory for	YES	reject
				1.28Mcps TDD. Not Applicable		
				to 3.84Mcps		
				TDD or		
				7.68Mcps		
				TDD		
>Common Physical Channel ID	М		9.2.1.13		_	
>Max FPACH Power	0		9.2.3.5E		_	
MICH Parameters		01			YES	reject
		1	9.2.1.13		_	-,
	М					
>Common Physical	М		5.2.1.10			
>Common Physical Channel ID						
>Common Physical	M 0		PICH		_	
>Common Physical Channel ID			PICH Power		-	
>Common Physical Channel ID >MICH Power		0.1	PICH			ignoro
>Common Physical Channel ID		01	PICH Power	Applicable to 1.28Mcps TDD	- YES	ignore

>Max PLCCH Power	0		DL Power 9.2.1.21		_	
Secondary CCPCH Parameters 7.68Mcps		01		Applicable to 7.68 Mcps TDD only	YES	reject
>CCTrCH ID	М		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	_	
>Secondary CCPCHs To Be Configured		0 <maxno ofSCCPC Hs768&gt;</maxno 			-	
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		_	
>>SCCPCH Power	0		DL power 9.2.1.21		-	
PICH Parameters 7.68Mcps		01		Applicable to 7.68 Mcps TDD only	YES	reject
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		_	
>PICH Power	0		9.2.1.49A		_	
MICH Parameters 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	reject
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		-	
>MICH Power	0		PICH Power 9.2.1.49A		-	
UpPCH Parameters		01		Applicable to 1.28Mcps TDD only	YES	reject
>UpPCH Position LCR	0		9.2.3.4Q	This position of UpPCH. For a multi-frequency cell, if this IE is not included in this message, UpP CH in secondary frequency indicated by "UARFCN" shall be deleted.	_	
>UARFCN	0		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15].	-	

Note 1: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs are represented by separate ASN.1 structures. Furthermore, maxnoofSCCPCHs has different values in the ASN.1 for each of the two TDD options.

Range Bound	Explanation
maxnoofSCCPCHs	Maximum number of SCCPCHs that can be repeated in a Cell
maxnoofFACHs	Maximum number of FACHs that can be repeated in a Cell
maxnoofSCCPCHs768	Maximum number of SCCPCHs that can be repeated in a Cell at
	7.68Mcps

# 9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.8 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

## 9.1.9 COMMON TRANSPORT CHANNEL DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Common Physical Channel ID	М		9.2.1.13	Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted.	YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Common Physical Channel ID 7.68Mcps	0		9.2.3.33	Included at 7.68 Mcps when the physical channel ID exceeds the range of " Common Physical Channel ID"	YES	reject

### 9.1.10 COMMON TRANSPORT CHANNEL DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.11 BLOCK RESOURCE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	•
C-ID	М		9.2.1.9		YES	reject
Blocking Priority Indicator	М		9.2.1.5		YES	reject
Shutdown Timer	C- BlockNorm al		9.2.1.56		YES	reject

Condition	Explanation
BlockNormal	The IE shall be present if the Blocking Priority Indicator IE indicates
	"Normal Priority".

#### 9.1.12 BLOCK RESOURCE RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

## 9.1.13 BLOCK RESOURCE FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

### 9.1.14 UNBLOCK RESOURCE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		_	
C-ID	Μ		9.2.1.9		YES	ignore

## 9.1.15 AUDIT REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	

# 9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Start Of Audit Sequence Indicator	М		9.2.1.56B		YES	reject

# 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
End Of Audit Sequence Indicator	М		9.2.1.29A		YES	ignore
Cell Information		0 <maxce IlinNode B&gt;</maxce 			EACH	ignore
>C-ID	М		9.2.1.9		_	
>Configuration Generation ID	Μ		9.2.1.16		_	
>Resource Operational State	М		9.2.1.52		_	
>Availability Status	М		9.2.1.2		_	
>Local Cell ID	М		9.2.1.38	The local cell that the cell is configured on	_	
>Primary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Primary CPICH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary CPICH Information		0 <maxs CPICHCell &gt;</maxs 		Applicable to FDD only	EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Primary CCPCH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>BCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore

>Secondary CCPCH		0 <maxs< th=""><th></th><th>See note 1</th><th>EACH</th><th>ignore</th></maxs<>		See note 1	EACH	ignore
Information		CCPCHCe		below		
>>Secondary CCPCH	м	>	Common		_	
Individual Information			Physical		_	
			Channel			
			Status			
			Information			
			9.2.1.13A			
>PCH Information	0		Common Transport		YES	ignore
			Channel			
			Status			
			Information 9.2.1.14B			
>PICH Information	0		Common		YES	ignore
	U		Physical		120	ignore
			Channel			
			Status Information			
			9.2.1.13A			
>FACH Information		0 <maxfa CHCell&gt;</maxfa 			EACH	ignore
>>FACH Individual	М		Common		_	
Information			Transport			
			Channel			
			Status			
			Information			
>PRACH Information			9.2.1.14B			
SPRACH Information		0 <maxp< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxp<>			EACH	ignore
		RACHCell				
>>PRACH Individual	М	-	Common		_	
Information			Physical			
			Channel			
			Status			
			Information			
>RACH Information			9.2.1.13A		54011	
		0 <maxr ACHCell&gt;</maxr 			EACH	ignore
>>RACH Individual	М		Common		_	
Information			Transport			
			Channel			
			Status			
			Information			
>AICH Information		0 <maxp< td=""><td>9.2.1.14B</td><td>Applicable to</td><td>EACH</td><td>ignoro</td></maxp<>	9.2.1.14B	Applicable to	EACH	ignoro
		RACHCell		Applicable to FDD only		ignore
		>				
>>AICH Individual	М		Common		_	
Information			Physical			
			Channel			
			Status			
			Information 9.2.1.13A			
>Not Used 1	0		NULL	This item shall	_	
				not be used.		
				Ignore if		
				received.		
>Not Used 2	0		NULL	This item shall	_	

				not be used. Ignore if received.		
>Not Used 3	0		NULL	This item shall not be used. Ignore if received.	_	
>Not Used 4	0		NULL	This item shall not be used. Ignore if received.	_	
>SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel Applicable to 3.84Mcps TDD only	YES	ignore
>FPACH Information		0 <maxfp ACHCell&gt;</maxfp 		Applicable to 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>DwPCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>HS-DSCH Resources Information		0 <maxfr equencyin Cell&gt;</maxfr 		See note 2 below	EACH	ignore
>Resource Operational State	М		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.	YES	ignore
>MICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>E-DCH Resources Information		0 <maxfr equencyin Cell&gt;</maxfr 		See note 2 below	EACH	ignore
>Resource Operational State	М		9.2.1.52		-	
>>Availability Status	М		9.2.1.2		_	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable to 1.28Mcps TDD	YES	ignore

				when using multiple frequencies.		
>PLCCH Information		0 <maxpl CCHCell&gt;</maxpl 		Applicable to 1.28Mcps TDD only	EACH	ignore
>>PLCCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Primary CCPCH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36		YES	ignore
>Secondary CCPCH Information 7.68Mcps		0 <maxs CCPCHCe II768&gt;</maxs 			EACH	ignore
>>Secondary CCPCH Individual Information 7.68 Mcps	м		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36		_	
>PICH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36		YES	ignore
>PRACH Information 7.68Mcps		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>PRACH Individual Information 7.68Mcps	M		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36		_	
>SCH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36	TDD Sync Channel Applicable to 7.68Mcps TDD only	YES	ignore
>MICH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68 Mcps 9.2.3.36		YES	ignore
>E-RUCCH Information		0 <maxe- RUCCHCe II&gt;</maxe- 		3.84Mcps TDD only	EACH	ignore
>>E-RUCCH Individual Information	М		Common		-	

	Γ	Т		1		
			Physical			
			Channel			
			Status			
			Information 9.2.1.13A			
>E-RUCCH Information		0 <maxe-< td=""><td>9.2.1.13A</td><td>7.68Mcps TDD</td><td>EACH</td><td>ignore</td></maxe-<>	9.2.1.13A	7.68Mcps TDD	EACH	ignore
7.68Mcps		RUCCHCe		only		0
		>				
>>E-RUCCH Individual	М		Common		_	
Information 7.68Mcps			Physical			
			Channel			
			Status			
			Information			
			7.68 Mcps 9.2.3.36			
>UARFCN Information		0 <maxfr< td=""><td>9.2.3.30</td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfr<>	9.2.3.30	Applicable to	EACH	ignore
LCR		equencyin		1.28Mcps TDD		0
		Cell>		when using		
				multiple		
				frequencies.		
>>UARFCN	М		9.2.1.65	Corresponds to	_	
Descurre Orenetica el				Nt [15]		
>Resource Operational State	М		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		_	
>UpPCH Information LCR		0 <maxfr< td=""><td></td><td>Applicable to</td><td>EACH</td><td>ignore</td></maxfr<>		Applicable to	EACH	ignore
		equencyin		1.28Mcps TDD		0
		Cell>		only.		
>>UARFCN	0		9.2.1.65	Mandatory for	_	
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
				Corresponds to		
>>UpPCH Position LCR	M		9.2.3.4Q	Nt [15]	_	
•	101		0.2.0.40			
>Resource Operational State	М		9.2.1.52		_	
>>Availability Status	М		9.2.1.2		-	
Communication Control		0 <maxc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxc<>			EACH	ignore
Port Information		CPinNode				.9.1010
		B>				
>Communication Control Port ID	М		9.2.1.15		_	
>Resource Operational	М		9.2.1.52		_	
State >Availability Status	M		9.2.1.2			
Local Cell Information		0 <maxlo< td=""><td>3.2.1.2</td><td></td><td>EACH</td><td>ignore</td></maxlo<>	3.2.1.2		EACH	ignore
		calCellinN			L/(0/1	gnore
		ode B>				
>Local Cell ID	М		9.2.1.38		_	
>DL Or Global Capacity	М		9.2.1.20B		_	
Credit >UL Capacity Credit	0		9.2.1.65A		_	
>Common Channels	M		9.2.1.9A		_	
Capacity Consumption Law			0.0.4.004			
>Dedicated Channels Capacity Consumption Law	М		9.2.1.20A		-	
	1	1	1	I		

>Maximum DL Power Capability	0		9.2.1.39		-	
>Minimum Spreading Factor	0		9.2.1.47		-	
>Minimum DL Power Capability	0		9.2.1.46A		_	
>Local Cell Group ID	0		9.2.1.37A		_	
>Reference Clock Availability	0		9.2.3.14A	TDD only	YES	ignore
>Power Local Cell Group ID	0		9.2.1.49B		YES	ignore
>HSDPA Capability	0		9.2.1.31Ga		YES	ignore
>E-DCH Capability	0		9.2.1.70		YES	ignore
>E-DCH TTI2ms Capability	C- EDCHCap ability		9.2.2.13V	FDD only	YES	ignore
>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W	FDD only	YES	ignore
>E-DCH HARQ Combining Capability	C- EDCHCap ability		9.2.2.13X	FDD only	YES	ignore
>E-DCH Capacity Consumption Law	0		9.2.2.13Ja	FDD only	YES	ignore
>F-DPCH Capability	0		9.2.2.16a	FDD only	YES	ignore
>E-DCH TDD Capacity	0		9.2.3.60	TDD only	YES	ignore
Consumption Law >Continuous Packet Connectivity DTX-DRX	0		9.2.2.64	FDD only	YES	ignore
Capability >Max UE DTX Cycle	C-DTX- DRXCapa		9.2.2.95	FDD only	YES	ignore
>Continuous Packet Connectivity HS-SCCH less Capability	bility O		9.2.2.65	FDD only	YES	ignore
>MIMO Capability	0		9.2.2.70	FDD only	YES	ignore
>SixtyfourQAM DL Capability	0		9.2.2.74	FDD only	YES	ignore
>MBMS Capability	0		9.2.1.86		YES	ignore
>Enhanced FACH	0		9.2.2.86	FDD only	YES	ignore
Capability >Enhanced PCH Capability	C- Enhanced FACHCap ability		9.2.2.87	FDD only	YES	ignore
>SixteenQAM UL Capability	0		9.2.2.88	FDD only	YES	ignore
>HS-DSCH MAC-d PDU Size Capability	0		9.2.1.31IC		YES	ignore
>MBSFN Only Mode Capability	0		9.2.3.71	1.28Mcps TDD only	YES	ignore
>F-DPCH Slot Format Capability	0		9.2.2.94	FDD only	YES	ignore
>E-DPCCH Power Boosting Capability	0		9.2.2.101		YES	ignore
>MIMO Power Offset For S- CPICH Capability	0		9.2.2.102	FDD only	YES	ignore
>TX Diversity on DL Control Channels by MIMO UE Capability	0		9.2.2.105	FDD only	YES	ignore
>Precoding Weight Set Restriction	0		9.2.2.106	FDD only	YES	ignore
Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>Local Cell Group ID	М		9.2.1.37A		-	
>DL Or Global Capacity	М		9.2.1.20B		_	

Credit						
>UL Capacity Credit	0		9.2.1.65A		_	
>Common Channels Capacity Consumption Law	М		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	М		9.2.1.20A		1	
>E-DCH Capacity Consumption Law	0		9.2.2.13Ja	FDD only	YES	ignore
>E-DCH TDD Capacity Consumption Law	0		9.2.3.60	TDD only	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Power Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>Power Local Cell Group ID	М		9.2.1.49B		_	
>Maximum DL Power Capability	М		9.2.1.39		_	

- Note 1: This information element is a simplified representation of the ASN.1. [TDD Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.
- Note 2: For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.

Condition	Explanation
EDCHCapability	The IE shall be present if the E-DCH Capability IE is set to "E-DCH
	Capable".
EnhancedFACHCapability	The IE shall be present if the Enhanced FACH Capability IE is set to
	"Enhanced FACH Capable".
DTX-DRXCapability	The IE shall be present if the Continuous Packet Connectivity DTX-DRX
	Capability IE is present and set to "Continuous Packet Connectivity
	DTX-DRX Capable".

Range Bound	Explanation
maxCellinNode B	Maximum number of Cells that can be configured in Node B
maxCCPinNode B	Maximum number of Communication Control Ports that can exist in the Node B
maxLocalCellinNode B	Maximum number of Local Cells that can exist in the Node B
maxSCPICHCell	Maximum number of Secondary CPICHs that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCHs that can be defined in a Cell.
maxSCCPCHCell768	Maximum number of Secondary CCPCHs that can be defined in a Cell for 7.68 Mcps TDD.
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHs that can be defined in a Cell
maxRACHCell	Maximum number of RACHs that can be defined in a Cell
maxFPACHCell	Maximum number of FPACHs that can be defined in a Cell
maxPLCCHCell	Maximum number of PLCCHs that can be defined in a Cell
maxE-RUCCHCell	Maximum number of E-RUCCHs that can be defined in a Cell
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell

# 9.1.17A AUDIT FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Cause	М		9.2.1.6		YES	ignore
Criticality diagnostics	0		9.2.1.17		YES	ignore

# 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	10,000
Measurement ID	M		9.2.1.42		YES	reject
CHOICE Common	M		3.2.1.72		YES	reject
Measurement Object Type	111				115	Tejeci
>Cell						
>>C-ID	М		9.2.1.9		_	
>>Time Slot	0		9.2.3.23	Applicable to	_	
	0		9.2.3.23	3.84McpsTDD and 7.68Mcps TDD only	_	
>>Time Slot LCR	0		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell Measurement Information		0 <maxno MeasNCell s&gt;</maxno 			GLOBAL	ignore
>>>CHOICE Neighbouring Cell Measurement Information		52			-	
>>>Neighbouring FDD Cell Measurement Information				FDD only		
>>>>Neighbouring FDD Cell Measurement Information	М		9.2.1.47C		-	
>>>>Neighbouring TDD Cell Measurement Information				Applicable to 3.84Mcps TDD only		
>>>>Neighbouring TDD Cell Measurement Information	М		9.2.1.47D		-	
>>>>Additional Neighbouring Cell Measurement Information				See Note 1		
>>>>Neighbouring TDD Cell Measurement Information LCR				Applicable to 1.28Mcps TDD only		
>>>>>Neighbouri ng TDD Cell Measurement Information LCR	М		9.2.1.47E		YES	reject
>>>>Neighbouring TDD Cell Measurement Information 768Mcps				Applicable to 7.68 Mcps TDD only		
>>>>>Neighbouri ng TDD Cell Measurement Information 768Mcps	М		9.2.3.37		YES	reject
>>UARFCN	0		9.2.1.65	Applicable for 1.28 Mcps TDD only	YES	reject

>>UpPCH Position LCR	0		9.2.3.4Q	Applicable to	YES	reject
				1.28Mcps TDD only		
>>Additional Time Slot		0 <maxfr< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>ignore</td></maxfr<>		Applicable to	GLOBAL	ignore
LCR		equencyin		1.28Mcps TDD	OLOD/(L	ignore
LOIX		Cell – 1>		only.		
		0011 - 12		If the IE		
				present, the		
				measurement		
				type should		
				also be applied		
				to the time slot		
>>>UARFCN	M		9.2.1.65	(s).	_	
>>>Time Slot Initiated	IVI	06	9.2.1.05	If the value is		
LCR		00		zero, the		
LOIN				measurement		
				type should be		
				applied to all		
		1		time slots in the		
				UARFCN which		
				satisfies the		
				requirement of		
				the		
				measurement		
				type		
>>>Time Slot LCR >RACH	М		9.2.3.24A	FDD only	_	
>>C-ID	М		9.2.1.9		_	
>>Common Transport	M		9.2.1.14			
Channel ID			3.2.1.14		_	
>Not Used			NULL	This choice		
				shall not be		
				used. Reject		
				procedure if		
				received.		
>Additional Common				See Note 1		
Measurement Object Types						
>>Power Local Cell					_	
Group						
>>>Power Local Cell	М		9.2.1.49B		YES	reject
Group ID						,
Common Measurement Type	Μ		9.2.1.11		YES	reject
Measurement Filter	0		9.2.1.41		YES	reject
Coefficient Report Characteristics	M		9.2.1.51		YES	roject
SFN Reporting Indicator	M	+	9.2.1.51 FN		YES	reject
SEN Reporting indicator		1	Reporting		1EO	reject
		1	Indicator			
SEN	0		9.2.1.29B		VEO	roiact
SFN Common Magaurament	0		9.2.1.53A		YES	reject
Common Measurement	0	1	9.2.1.9B		YES	reject
Accuracy Measurement Resources	0		0.2.1.424		VES	ianoro
Measurement Recovery	0	1	9.2.1.43A		YES	ignore
Behavior BTW/P* Peperting Indicator	0		0.2.4.526		YES	roject
RTWP* Reporting Indicator RTWP* for Cell Portion	0	<u> </u>	9.2.1.53b 9.2.1.53c		YES	reject
Reporting Indicator			9.2.1.330		169	reject
Reference Received Total	0	+	9.2.2.39C	FDD only	YES	ignore
Wide Band Power Reporting	Ŭ		0.2.2.000	. DD only	. 20	ignore
while band i ower reporting	I	1				

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

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Range Bound	Explanation
maxnoMeasNCells	Maximum number of neighbouring cells that can be measured on.
maxFrequencyinCell – 1	Maximum number of frequencies that can be used in the cell minus 1.

# 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Measurement ID	М		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell						
>>Common Measurement	М		9.2.1.12		_	
Value						
>>Additional Measurement Value		0 <maxfr equencyin Cell&gt;</maxfr 		Applicable to 1.28Mcps TDD only. The Common Measurement Value Information in additional time slot will be reported if the number of Additional Time Slot LCR is not 0 in COMMON MEASUREME NT INITIATION REQUEST.	GLOBAL	ignore
>>>UARFCN	М		9.2.1.65			
>>>Time Slot Measurement Value LCR		16			-	
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>Common	М		9.2.1.12		_	
Measurement Value			0.2.1112			
>RACH				FDD only		
>>Common Measurement	М		9.2.1.12		-	
Value >Not Used			NULL	This choice shall not be used.		
>Additional Common Measurement Object Types				See Note 1		
>>Power Local Cell					_	
Group >>>Common Measurement Value	М		9.2.1.12		YES	ignore
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measureme nt Accuracy 9.2.1.9B		YES	ignore
Measurement Recovery Support Indicator	0		9.2.1.43C		YES	ignore
Reference Received Total	0	i	9.2.2.39D	FDD only	YES	ignore

Wide Band Power Support Indicator					
Reference Received Total Wide Band Power	0	9.2.2.39B	FDD only	YES	ignore

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

Range Bound	Explanation
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell.

### 9.1.20 COMMON MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Measurement ID	М		9.2.1.42		YES	ignore
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type	M			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell						
>Common Measurement Value Information	М		9.2.1.12A		-	
>>Additional Measurement Value Information		0 <maxfr equencyin Cell&gt;</maxfr 		Applicable to 1.28Mcps TDD only. The Common Measurement Value Information in additional time slot will be reported if the number of Additional Time Slot LCR is not 0 COMMON MEASUREME NT INITIATION REQUEST.	GLOBAL	ignore
>>>UARFCN			9.2.1.65			
>>>Time Slot Measurement Value LCR		16	0.2.1.00			
>>>Time Slot LCR	М		9.2.3.24A			
>>>>Common Measurement Value Information	M		9.2.1.12A			
>RACH				FDD only		
>>Common Measurement Value Information	М		9.2.1.12A		_	
>Not Used			NULL	This choice shall not be used.		
>Additional Common Measurement Object Types				See Note 1		
>>Power Local Cell Group					-	
>>>Common Measurement Value Information	M		9.2.1.12A		YES	ignore
SFN	0		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Measurement Recovery Reporting Indicator	0		9.2.1.43B		YES	ignore
Reference Received Total Wide Band Power	0		9.2.2.39B	FDD only	YES	ignore

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Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

Range Bound	Explanation
maxFrequencyinCell – 1	Maximum number of Frequencies that can be defined in a Cell.

#### 9.1.22 COMMON MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Measurement ID	М		9.2.1.42		YES	ignore

### 9.1.23 COMMON MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Measurement ID	М		9.2.1.42		YES	ignore
Cause	М		9.2.1.6		YES	ignore

## 9.1.24 CELL SETUP REQUEST

#### 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Griticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Local Cell ID	М		9.2.1.38		YES	reject
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
T Cell	М		9.2.2.49		YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nd [14]	YES	reject

Maximum Transmission Power	М		9.2.1.40	YES	reject
Closed Loop Timing Adjustment Mode	0		9.2.2.2A	YES	reject
Primary Scrambling Code	М		9.2.2.34	YES	reject
Synchronisation		1		YES	reject
Configuration					
>N_INSYNC_IND	Μ		9.2.1.47A	_	
>N_OUTSYNC_IND	Μ		9.2.1.47B	_	
>T_RLFAILURE	Μ		9.2.1.56A	_	
DL TPC Pattern 01 Count	Μ		9.2.2.13A	YES	reject
Primary SCH Information		1		YES	reject
>Common Physical	М		9.2.1.13	-	
Channel ID >Primary SCH Power	Μ		DL Power	-	
	N.4		9.2.1.21		
>TSTD Indicator	М	4	9.2.1.64	-	und and
Secondary SCH Information		1	0.0.1.10	YES	reject
>Common Physical Channel ID	М		9.2.1.13	-	
>Secondary SCH Power	М		DL Power	-	
-	<b></b>		9.2.1.21		
>TSTD Indicator	М		9.2.1.64		
Primary CPICH Information		1		YES	reject
>Common Physical	М		9.2.1.13	-	
Channel ID	L				
>Primary CPICH power	М		9.2.2.33		
>Transmit Diversity	Μ		9.2.2.53	-	
Indicator					
Secondary CPICH		0 <maxs< td=""><td></td><td>EACH</td><td>reject</td></maxs<>		EACH	reject
Information		CPICHCell			
>Common Physical	М	>	9.2.1.13		
Channel ID			0.2.1110		
>DL Scrambling Code	М		9.2.2.13	_	
>FDD DL Channelisation	M		9.2.2.14	_	
Code Number			0		
>Secondary CPICH Power	М		DL Power	_	
,			9.2.1.21		
>Transmit Diversity	М		9.2.2.53	_	
Indicator					
Primary CCPCH		1		YES	reject
Information					
>Common Physical Channel ID	М		9.2.1.13	-	
>BCH Information	}	1			
>>Common Transport	М	1	9.2.1.14		
Channel ID	IVI		J.Z.1.14	_	
>>BCH Power	М		DL Power	-	
			9.2.1.21		
>STTD Indicator	М		9.2.2.48	-	
Limited Power Increase Information		1		YES	reject
<pre>&gt;Power_Raise_Limit</pre>	M		9.2.2.29A		
>DV	M		9.2.2.29A 9.2.2.12A		
dow_size			J.Z.Z.12A	-	
IPDL Parameter Information		01		YES	reject
>IPDL FDD Parameters	М		9.2.2.18C	-	
>IPDL Indicator	M		9.2.1.36F		
Cell Portion Information		0 <maxno< td=""><td></td><td>EACH</td><td>reject</td></maxno<>		EACH	reject
		ofCellPorti ons>			
>Cell Portion ID	М		9.2.2.1Ca	_	
>Associated Secondary	M		Common	_	
CPICH			Physical		
			Channel ID 9.2.1.13		
			9.2.1.13		

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>Maximum Transmission Power for Cell Portion	M	Maximum Transmissio n Power 9.2.1.40		_	
MIMO Pilot Configuration	0	9.2.2.73		YES	reject
MIMO Pilot Configuration Extension	0	9.2.2.104	Can only be present if the <i>MIMO Pilot</i> <i>Configuration</i> IE is present	YES	reject

Range Bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICHs that can be defined in a Cell.
MaxNoofCellPortions	Maximum number of Cell Portions in a cell

# 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Local Cell ID	M		9.2.1.38		YES	reject
C-ID	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nt [15] For 1.28Mcps	YES	reject
				TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary Frequency.		
Cell Parameter ID	M		9.2.3.4	For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE indicates the preamble code used in the MBSFN Special Time Slot [19].	YES	reject
Maximum Transmission Power	Μ		9.2.1.40		YES	reject
Transmission Diversity Applied	Μ		9.2.3.26		YES	reject
Sync Case	М		9.2.3.18		YES	reject
Synchronisation Configuration		1			YES	reject
>N_INSYNC_IND	М		9.2.1.47A		-	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	M		9.2.1.56A		_	
DPCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PUSCH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	M		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
Timing Advance Applied	M		9.2.3.22A		YES	reject
SCH Information		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>CHOICE Sync Case >Case 1	Μ				YES	reject
>>>Time Slot >>Case 2	M		9.2.3.23		_	
>>>SCH Time Slot	М		9.2.3.17			

>SCH Power	М		DL Power 9.2.1.21		-	
>TSTD Indicator	М		9.2.1.64		_	
PCCPCH Information		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>TDD Physical Channel Offset	М		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		_	
>Repetition Length	М		9.2.3.15		-	
>PCCPCH Power	М		9.2.3.9		-	
>SCTD Indicator	М		9.2.3.30		_	
Time Slot Configuration		015		Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	М		9.2.3.23		_	
>Time Slot Status	М		9.2.3.25		-	
>Time Slot Direction	М		9.2.3.24		_	
>MBSFN Cell Parameter ID	0		Cell Parameter ID 9.2.3.4		YES	reject
Time Slot Configuration LCR		07		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary Frequency.	GLOBAL	reject
>Time Slot LCR	М		9.2.3.24A	· · · · ·	_	
>Time Slot Status	М		9.2.3.25		_	
>Time Slot Direction	М		9.2.3.24		_	
>Time Slot Parameter ID	0		Cell Parameter ID 9.2.3.4	Applicable only to MBSFN only mode	YES	reject

PCCPCH Information LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the	YES	reject
				MBSFN Special		
>Common Physical Channel ID	М		9.2.1.13	Time Slot [19].	_	
>TDD Physical Channel Offset	М		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		-	
>Repetition Length	М		9.2.3.15		_	
>PCCPCH Power	М		9.2.3.9		_	
>SCTD Indicator	Μ		9.2.3.30		_	
>TSTD Indicator	Μ		9.2.1.64		_	
DwPCH Information		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>TSTD Indicator	М		9.2.1.64		_	
>DwPCH Power	М		9.2.3.5B		-	
Reference SFN Offset	0		9.2.3.14B		YES	ignore
IPDL Parameter Information		01		Applicable to 3.84 Mcps TDD and 7.68 Mcps TDD only	YES	reject
>IPDL TDD Parameters	М		9.2.3.5D		_	
>IPDL Indicator	М		9.2.1.36F		-	
IPDL Parameter Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>IPDL TDD Parameters LCR	М		9.2.3.5H		_	
>IPDL Indicator	Μ		9.2.1.36F		—	

	r	T -				
PCCPCH Information 7.68 Mcps TDD		01		Mandatory for 7.68 Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD.	YES	reject
>Common Physical Channel ID 7.68 Mcps	М		9.2.3.33		-	
>TDD Physical Channel Offset	М		9.2.3.20		_	
>Repetition Period	М		9.2.3.16		_	
>Repetition Length	M		9.2.3.15		_	
>PCCPCH Power	M		9.2.3.9		_	
>SCTD Indicator	M		9.2.3.30		_	
SCH Information 7.68Mcps		01	0.2.0.00	Mandatory for	YES	reject
TDD				7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84Mcps TDD.		, cjoot
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		_	
>CHOICE Sync Case	М				YES	reject
>>Case 1						
>>>Time Slot	М		9.2.3.23		_	
>>Case 2						
>>>SCH Time Slot	M		9.2.3.17		_	
>SCH Power	М		DL Power 9.2.1.21		_	
>TSTD Indicator	М		9.2.1.64		_	
MBSFN Only Mode Indicator	0		9.2.3.70	Mandatory for 1.28Mcps TDD when the cell is operating in MBSFN only mode. Not applicable to FDD, 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
UARFCN Information LCR		0 <maxfreq uencyinCe II-1&gt;</maxfreq 		Mandatory for 1.28Mcps TDD when using multiple frequencies. It indicates the UARFCN and Time Slot configuration information of the Secondary Frequencies. There could be several secondary frequencies	EACH	reject
>UARFCN >Time Slot Configuration	M	17	9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency. This IE	_	
LCR				indicates the Time Slot		

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			configuration of a Secondary Frequency.		
>>Time Slot LCR	Μ	9.2.3.24A		-	
>>Time Slot Status	Μ	9.2.3.25		-	
>>Time Slot Direction	Μ	9.2.3.24		1	
>>Time Slot Parameter ID	0	Cell Parameter ID 9.2.3.4		YES	reject

Range Bound	Explanation			
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell			

### 9.1.25 CELL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.26 CELL SETUP FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.27 CELL RECONFIGURATION REQUEST

### 9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Oncidently
Message Discriminator	М		9.2.1.45		_	
	M		9.2.1.46		YES	reject
Message Type Transaction ID	M		9.2.1.62		120	Tejeet
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Maximum Transmission	0		9.2.1.40		YES	reject
Power	U		9.2.1.40		123	Tejeci
Synchronisation		01			YES	reject
Configuration		01			120	reject
>N_INSYNC_IND	М		9.2.1.47A		_	
>N_OUTSYNC_IND	M		9.2.1.47B		_	
>T_RLFAILURE	M		9.2.1.56A		_	
Primary SCH Information		01			YES	reject
>Common Physical	М	••••	9.2.1.13		_	
Channel ID						
>Primary SCH Power	М		DL Power		_	
			9.2.1.21			
Secondary SCH Information		01			YES	reject
>Common Physical Channel ID	М		9.2.1.13		-	
>Secondary SCH Power	М		DL Power 9.2.1.21		-	
Primary CPICH Information		01	9.2.1.21		YES	reject
>Common Physical	М	01	9.2.1.13		123	Tejeci
Channel ID						
>Primary CPICH Power	М		9.2.2.33		_	
Secondary CPICH Information		0 <maxs CPICHCell &gt;</maxs 			EACH	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>Secondary CPICH Power	М		DL Power 9.2.1.21		-	
Primary CCPCH		01			YES	reject
Information						,
>BCH Information		1			-	
>>Common Transport Channel ID	М		9.2.1.14		-	
>>BCH Power	М		DL Power 9.2.1.21		-	
IPDL Parameter Information		01	0.2.1.21		YES	reject
>IPDL FDD Parameters	0		9.2.2.18C		-	
>IPDL Indicator	M		9.2.1.36F		_	
Cell Portion Information		0 <maxno ofCellPorti</maxno 			EACH	reject
>Cell Portion ID	M	ons>	9.2.2.1Ca		-	
>Maximum Transmission	M		Maximum		-	
Power for Cell Portion			Transmissio n Power 9.2.1.40			
MIMO Pilot Configuration	0		9.2.2.73		YES	reject
MIMO Pilot Configuration	0		9.2.2.104		YES	reject
Extension	Ĭ		0.2.2.107			.0,000

Range Bound	Explanation
maxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

# 9.1.27.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
Synchronisation Configuration		01			YES	reject
>N_INSYNC_IND	М		9.2.1.47A		_	
>N_OUTSYNC_IND	М		9.2.1.47B		_	
>T_RLFAILURE	М		9.2.1.56A		-	
Timing Advance Applied SCH Information	0	01	9.2.3.22A	Applicable to 3.84Mcps TDD only	YES YES	reject reject
>Common Physical Channel ID	М		9.2.1.13		-	
>SCH Power	М		DL Power 9.2.1.21		_	
PCCPCH Information		01		Not applicable to 7.68Mcps TDD only. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot [19].	YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		-	
>PCCPCH Power	М		9.2.3.9		_	
Maximum Transmission Power	0		9.2.1.40		YES	reject
DPCH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PUSCH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
PRACH Constant Value	0		Constant Value 9.2.3.4A	This IE shall be ignored by the Node B.	YES	reject
Time Slot Configuration		015		Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	М		9.2.3.23	·	_	
>Time Slot Status	М		9.2.3.25		_	
>Time Slot Direction	М		9.2.3.24		_	
>MBSFN Cell Parameter ID	0		Cell Parameter ID 9.2.3.4		YES	reject
Time Slot Configuration LCR		07	0.2.0.7	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or	GLOBAL	reject

ſ	1					T
				7.68Mcps TDD. If multiple frequencies exist within the cell indicated by		
				C-ID, this IE indicates the Time Slot		
				reconfiguration of Primary Frequency.		
>Time Slot LCR	М		9.2.3.24A		_	
>Time Slot Status	М		9.2.3.25		_	
>Time Slot Direction DwPCH Information	Μ	0.1	9.2.3.24	Anglinghlata		nais at
		01		Applicable to 1.28Mcps TDD only.	YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>DwPCH Power	М		9.2.3.5B		—	
IPDL Parameter Information		01		Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	reject
>IPDL TDD Parameters	0		9.2.3.5D		_	
>IPDL Indicator	М		9.2.1.36F		_	
IPDL Parameter Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>IPDL TDD Parameters LCR	0		9.2.3.5H		-	
>IPDL Indicator	М		9.2.1.36F		_	
SCH Information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	reject
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		—	
>SCH Power	М		DL Power 9.2.1.21		_	
PCCPCH Information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	reject
>Common Physical Channel ID 7.68Mcps	М		9.2.3.33		-	
>PCCPCH Power	Μ		9.2.3.9		_	
CHOICE UARFCN Adjustment	0			Applicable to 1.28Mcps TDD when using multiple frequencies	YES	reject
>Add						
>>UARFCN Information To Add LCR		1			-	
>>>UARFCN	Μ		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.	-	
>>>Time Slot Configuration LCR		17		This IE indicates the Time Slot configuration of a Secondary Frequency to	_	

				add.		
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>>Time Slot Status	М		9.2.3.25		-	
>>>>Time Slot Direction	М		9.2.3.24		-	
>Modify						
>>UARFCN Information To Modify LCR		1 <maxfreq uencyinCe II-1&gt;</maxfreq 		there could be several secondary frequencies	_	
>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to modify.	F	
>>>Time Slot Configuration LCR		17		This IE indicates the Time Slot reconfiguration of a Secondary Frequency to modify.	_	
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>>Time Slot Status	М		9.2.3.25		-	
>>>>Time Slot Direction	М		9.2.3.24		-	
>Delete						
>>UARFCN Information To Delete LCR		1			-	
>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15] This IE indicates the frequency of Secondary Frequency to delete.	_	

Range Bound	Explanation				
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell				

### 9.1.28 CELL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.29 CELL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.30 CELL DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	Μ		9.2.1.62		_	
C-ID	Μ		9.2.1.9		YES	reject

## 9.1.31 CELL DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CHOICE Indication Type	М				YES	ignore
>No Failure						
>>Local Cell Information		1 <max LocalCellin Node B&gt;</max 			EACH	ignore
>>>Local Cell ID	М		9.2.1.38		-	
>>>Add/Delete Indicator	М		9.2.1.1		-	
>>>DL Or Global Capacity Credit	C-add		9.2.1.20B		-	
>>>UL Capacity Credit	0		9.2.1.65A		-	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		_	
>>>Maximum DL Power Capability	C-add		9.2.1.39		-	
>>>Minimum Spreading Factor	C-add		9.2.1.47		-	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		-	
>>>Local Cell Group ID	0		9.2.1.37A		-	
>>>Reference Clock Availability	0		9.2.3.14A	TDD only	YES	ignore
>>>Power Local Cell Group ID	0		9.2.1.49B		YES	ignore
>>>HSDPA Capability	0		9.2.1.31Ga		YES	ignore
>>>E-DCH Capability	0		9.2.1.70		YES	ignore
>>>E-DCH TTI2ms Capability	C- EDCHCap ability		9.2.2.13V	FDD only	YES	ignore
>>>E-DCH SF Capability	C- EDCHCap ability		9.2.2.13W	FDD only	YES	ignore
>>>E-DCH HARQ Combining Capability	C- EDCHCap ability		9.2.2.13X	FDD only	YES	ignore
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja	FDD only	YES	ignore
>>>F-DPCH Capability	0		9.2.2.16a	FDD only	YES	ignore
>>>E-DCH TDD Capacity Consumption	0		9.2.3.60	TDD only	YES	ignore
Law >>>Continuous Packet Connectivity DTX-DRX Capability	0		9.2.2.64	FDD only	YES	ignore
>>>Max UE DTX Cycle	C-DTX- DRXCapa bility		9.2.2.95	FDD only	YES	ignore
>>>Continuous Packet Connectivity HS-SCCH	0		9.2.2.65	FDD only	YES	ignore

less Capability						
>>>MIMO Capability	0		9.2.2.70	FDD only	YES	ignore
>>>SixtyfourQAM DL	0		9.2.2.74	FDD only	YES	ignore
Capability						
>>>MBMS Capability	0		9.2.1.86		YES	ignore
>>>Enhanced FACH Capability	0		9.2.2.86	FDD only	YES	ignore
>>>Enhanced PCH Capability	C- Enhanced FACHCap ability		9.2.2.87	FDD only	YES	ignore
>>>SixteenQAM UL Capability	0		9.2.2.88	FDD only	YES	ignore
>>HS-DSCH MAC-d PDU Size Capability	0		9.2.1.31IC		YES	ignore
>>>MBSFN Only Mode Capability	0		9.2.3.71	1.28Mcps TDD only	YES	ignore
>>>F-DPCH Slot Format Capability	0		9.2.2.94	FDD only	YES	ignore
>>>E-DPCCH Power Boosting Capability	0		9.2.2.101		YES	ignore
>>>MIMO Power Offset For S-CPICH Capability	0		9.2.2.102	FDD only	YES	ignore
>>>TX Diversity on DL Control Channels by MIMO UE Capability	0		9.2.2.105	FDD only	YES	ignore
>>>Precoding Weight Set Restriction	0		9.2.2.106	FDD only	YES	ignore
>>Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>>>Local Cell Group ID	М		9.2.1.37A		_	
>>>DL Or Global Capacity Credit	М		9.2.1.20B		_	
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels Capacity Consumption Law	Μ		9.2.1.9A		-	
>>>Dedicated Channels Capacity Consumption Law	Μ		9.2.1.20A		-	
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja	FDD only	YES	ignore
>>>E-DCH TDD Capacity Consumption Law	0		9.2.3.60	TDD only	YES	ignore
>>Power Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>>>Power Local Cell Group ID	М		9.2.1.49B		-	
>>>Maximum DL Power Capability	М		9.2.1.39		-	
Service Impacting >Local Cell Information		0 <maxlo calCellinN</maxlo 			EACH	ignore
	M	ode B>	9.2.1.38		_	
>>>Local Cell ID >>>DL Or Global	0		9.2.1.20B		_	
	-		5.2.1.200			

>>>UL Capacity Credit	0	9.2.1.65A		-	
>>>Common Channels Capacity Consumption	0	9.2.1.9A		_	
Law					
>>>Dedicated Channels Capacity Consumption Law	0	9.2.1.20A		-	
>>>Maximum DL Power Capability	0	9.2.1.39		-	
>>>Minimum Spreading Factor	0	9.2.1.47		-	
>>>Minimum DL Power Capability	0	9.2.1.46A		-	
>>>Reference Clock	0	9.2.3.14A	TDD only	YES	ignor
Availability	0	9.2.1.31Ga		YES	ignor
>>>HSDPA Capability >>>E-DCH Capability	0	9.2.1.70		YES	ignor
>>>E-DCH TTI2ms Capability	C- EDCHCap ability	9.2.2.13V	FDD only	YES	ignor
>>>E-DCH SF Capability	C- EDCHCap ability	9.2.2.13W	FDD only	YES	ignor
>>>E-DCH HARQ Combining Capability	C- EDCHCap ability	9.2.2.13X	FDD only	YES	ignor
>>>E-DCH Capacity Consumption Law	0	9.2.2.13Ja	FDD only	YES	ignor
>>>F-DPCH Capability	0	9.2.2.16a		YES	ignor
>>>E-DCH TDD Capacity Consumption Law	0	9.2.3.60	TDD only	YES	ignor
>>>Continuous Packet Connectivity DTX-DRX Capability	0	9.2.2.64	FDD only	YES	ignor
>>>Max UE DTX Cycle	C-DTX- DRXCapa bility	9.2.2.95	FDD only	YES	ignor
>>>Continuous Packet Connectivity HS-SCCH less Capability	0	9.2.2.65	FDD only	YES	ignor
>>>MIMO Capability	0	9.2.2.70	FDD only	YES	ignor
>>>SixtyfourQAM DL Capability	0	9.2.2.74	FDD only	YES	ignor
>>>MBMS Capability	0	9.2.1.86	1	YES	ignor
>>>Enhanced FACH Capability	0	9.2.2.86	FDD only	YES	ignor
>>>Enhanced PCH Capability	C- Enhanced FACHCap ability	9.2.2.87	FDD only	YES	ignor
>>>SixteenQAM UL Capability	0	9.2.2.88	FDD only	YES	ignor
>>>HS-DSCH MAC-d PDU Size Capability	0	9.2.1.31IC		YES	ignor
>>>MBSFN Only Mode Capability	0	9.2.3.71	1.28Mcps TDD only	YES	ignor
>>>F-DPCH Slot Format Capability	0	9.2.2.94	FDD only	YES	ignor
- onnat Oupdonity	0	9.2.2.101	1	YES	ignor

>>>Secondary CPICH Information		CPICHCell		FDD only	LACIT	ignore
>>>Primary CPICH Information	0	0 <maxs< td=""><td>Common Physical Channel Status Information 9.2.1.13A</td><td>FDD only</td><td>YES</td><td>ignore</td></maxs<>	Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Primary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
Operational State >>>Availability Status	0		9.2.1.2		-	
>>>Resource	0		9.2.1.52		-	
>>>C-ID	M	llinNode B>	9.2.1.9			
<pre>&gt;&gt;&gt;Availability Status &gt;&gt;Cell Information</pre>	М	0 <maxce< td=""><td>9.2.1.2</td><td></td><td>EACH</td><td>ignore</td></maxce<>	9.2.1.2		EACH	ignore
>>>Resource Operational State						
>>>Communication Control Port ID	M		9.2.1.15		-	
>>Communication Control Port Information		0 <maxc CPinNode B&gt;</maxc 			EACH	ignore
>>>E-DCH TDD Capacity Consumption Law	0	0 <maxc< td=""><td>9.2.3.60</td><td>TDD only</td><td>YES</td><td>ignore</td></maxc<>	9.2.3.60	TDD only	YES	ignore
>>>E-DCH Capacity Consumption Law	0		9.2.2.13Ja	FDD only	YES	ignore
>>>Dedicated Channels Capacity Consumption Law	0		9.2.1.20A		-	
>>>Common Channels Capacity Consumption Law	0		9.2.1.9A		-	
>>>UL Capacity Credit	0		9.2.1.65A		-	
>>>DL Or Global Capacity Credit	0		9.2.1.20B		-	
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>>>Precoding Weight Set Restriction	0		9.2.2.106	FDD only	YES	ignore
>>>TX Diversity on DL Control Channels by MIMO UE Capability	0		9.2.2.105	FDD only	YES	ignore
>>>MIMO Power Offset For S-CPICH Capability	0		9.2.2.102	FDD only	YES	ignore

<b>a</b> .	N.4	>	<b>Care</b>			
>>>>Secondary CPICH Individual Information	M		Common Physical Channel Status		-	
	-		Information 9.2.1.13A			
>>>Primary CCPCH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>Secondary CCPCH Information		0 <maxs CCPCHCe II&gt;</maxs 		See note 1 below	EACH	ignore
>>>Secondary CCPCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>PCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FACH Information		0 <maxfa CHCell&gt;</maxfa 			EACH	ignore
>>>>FACH Individual Information	М		Common Transport Channel Status Information 9.2.1.14B		_	
>>>PRACH Information		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>>>PRACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>RACH Information		0 <maxp RACHCell &gt;</maxp 			EACH	ignore
>>>>RACH Individual Information	М		Common Transport Channel Status Information 9.2.1.14B		-	
>>>AICH Information		0 <maxp< td=""><td></td><td>FDD only</td><td>EACH</td><td>ignore</td></maxp<>		FDD only	EACH	ignore

		>				
>>>>AICH Individual Information	Μ		Common Physical Channel Status Information 9.2.1.13A		-	
>>>Not Used 1	0		NULL	This item shall not be used. Ignore if received.	-	
>>>Not Used 2	0		NULL	This item shall not be used. Ignore if received.	_	
>>>Not Used 3	0		NULL	This item shall not be used. Ignore if received.	-	
>>>Not Used 4	0		NULL	This item shall not be used. Ignore if received.	-	
>>>SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH Information		0 <maxfp ACHCell&gt;</maxfp 		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>DwPCH Information	0		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>HS-DSCH Resources Information		0 <maxfreq uencyinCe II&gt;</maxfreq 		See note 2 below	EACH	ignore
>>>>Resource Operational State	М		9.2.1.52		-	
>>>Availability Status	М		9.2.1.2		_	
>>>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.	YES	ignore
>>>MICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>E-DCH Resources Information		0 <maxfr equencyin</maxfr 		See note 2 below	EACH	ignore

	N.4	Cell>	0.04.50			
>>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		-	
>>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.	YES	ignor
>>>PLCCH Information		0 <maxpl CCHCell&gt;</maxpl 		Applicable to 1.28Mcps TDD only	EACH	ignor
>>>>PLCCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>Primary CCPCH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		YES	ignor
>>>Secondary CCPCH Information 7.68Mcps		0 <maxs CCPCHCe II768&gt;</maxs 			EACH	ignor
>>>Secondary CCPCH Individual Information 7.68Mcps	M		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		-	
>>>PICH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		YES	ignor
>>>PRACH Information 7.68Mcps		0 <maxp RACHCell &gt;</maxp 			EACH	ignor
>>>>PRACH Individual Information 7.68Mcps	M		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		_	
>>>SCH Information 7.68Mcps	0		Common Physical Channel Status Information 7.68Mcps 9.2.3.36	Applicable to 7.68Mcps TDD only	YES	ignor
>>>MICH Information 7.68Mcps	0		Common Physical Channel Status Information		YES	ignor

			7.68Mcps 9.2.3.36			
>>>E-RUCCH Information		0 <maxe- RUCCHCe II&gt;</maxe- 	9.2.3.30	Applicable to 3.84Mcps TDD only	EACH	ignore
>>>E-RUCCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>E-RUCCH Information 7.68Mcps		0 <maxe- RUCCHCe II&gt;</maxe- 		Applicable to 7.68Mcps TDD only	EACH	ignore
>>>>E-RUCCH Individual Information 7.68Mcps	М		Common Physical Channel Status Information 7.68Mcps 9.2.3.36		-	
>>>UARFCN Information LCR		0 <maxfr equencyin Cell&gt;</maxfr 		Applicable to 1.28Mcps TDD when using multiple frequencies.	EACH	ignore
>>>>UARFCN	М		9.2.1.65	Corresponds to Nt [15]	-	
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		_	
>>>Cause	0		9.2.1.6		_	
>>>UpPCH Information LCR		0 <maxfr equencyin Cell&gt;</maxfr 		Applicable to 1.28Mcps TDD only.	EACH	ignore
>>>UARFCN	0		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15]	-	
>>>>UpPCH Position LCR	М		9.2.3.4Q		-	
>>>Resource Operational State	М		9.2.1.52		_	
>>>Availability Status	М		9.2.1.2		-	
>>Power Local Cell Group Information		0 <maxlo calCellinN ode B&gt;</maxlo 			EACH	ignore
>>>Power Local Cell Group ID	М		9.2.1.49B		-	
>>>Maximum DL Power Capability	М		9.2.1.39		-	
Cause	0	T	9.2.1.6		YES	ignore

Note 1: This information element is a simplified representation of the ASN.1. [TDD - Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

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Note 2: For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.

Condition	Explanation
add	The IE shall be present if the Add/Delete Indicator IE is set to "Add".
EDCHCapability	The IE shall be present if the E-DCH Capability IE is set to "E-DCH
	Capable".
EnhancedFACHCapability	The IE shall be present if the Enhanced FACH Capability IE is set to
	"Enhanced FACH Capable".
DTX-DRXCapability	The IE shall be present if the Continuous Packet Connectivity DTX-DRX
	Capability IE is present and set to " Continuous Packet Connectivity
	DTX-DRX Capable".

Range Bound	Explanation
maxLocalCellinNode B	Maximum number of Local Cells that can exist in the Node B
maxCellinNode B	Maximum number of C-IDs that can be configured in the Node B
maxSCPICHCell	Maximum number of Secondary CPICHs that can be defined in a Cell.
maxSCCPCHCell	Maximum number of Secondary CCPCHs that can be defined in a Cell.
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
maxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
maxCCPinNode B	Maximum number of Communication Control Ports that can exist in the Node B
maxFPACHCell	Maximum number of FPACHs that can be defined in a Cell
maxPLCCHCell	Maximum number of PLCCHs that can be defined in a Cell
maxE-RUCCHCell	Maximum number of E-RUCCHs that can be defined in a Cell
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell

# 9.1.33 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	

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C-ID	М		9.2.1.9		YES	reject
BCCH Modification Time	0		9.2.1.3		YES	reject
MIB/SB/SIBInformation		1 <maxib &gt;</maxib 			GLOBAL	reject
>IB Type	М		9.2.1.35		—	
>IB OC ID	M		9.2.1.31A	In one message, every occurrence of IB Type can only be deleted once and/or added once.	_	
>CHOICE IB Deletion Indicator	М				_	
>>No Deletion						
>>>SIB Originator	C-SIB		9.2.1.55		-	
>>>IB SG REP	0		9.2.1.34		-	
>>>Segment Information		1 <maxib SEG&gt;</maxib 			GLOBAL	reject
>>>IB SG POS	0		9.2.1.33		_	
>>>Segment Type	C- CRNCOrig ination		9.2.1.53B		-	
>>>>IB SG DATA	C- CRNCOrig ination		9.2.1.32		-	
>>Deletion			NULL			

Range bound	Explanation
maxIB	Maximum number of information Blocks supported in one message
maxIBSEG	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOrigination	The IE shall be present if the SIB Originator IE is set to "CRNC" or if the
	IB Type IE is set to "MIB", "SB1" or "SB2".
SIB	The IE shall be present if the <i>IB Type</i> IE is set to "SIB".

# 9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.35 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.36 RADIO LINK SETUP REQUEST

### 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	М		9.2.2.59		-	
>Min UL Channelisation	М		9.2.2.22		-	
Code Length						
>Max Number of UL	C-		9.2.2.21		_	
DPDCHs	CodeLen					
>Puncture Limit	Μ		9.2.1.50	For UL	_	
>TFCS	М		9.2.1.58	For UL	_	
>UL DPCCH Slot Format	М		9.2.2.57		_	
>UL SIR Target	M		UL SIR		_	
			9.2.1.67A			
>Diversity Mode	М		9.2.2.9		-	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>DPC Mode	0		9.2.2.13C		YES	reject
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.61	This IE may be present without the presence of the <i>E-DPCH</i> Information IE	YES	reject
DL DPCH Information		01			YES	reject
>TFCS	Μ		9.2.1.58	For DL	_	-
>DL DPCH Slot Format	М		9.2.2.10		_	
>TFCI Signalling Mode	М		9.2.2.50		_	
>TFCI Presence	C-		9.2.1.57			
	SlotFormat		0.201			
>Multiplexing Position	М		9.2.2.23		-	
>Not Used	0		NULL		_	
>Not Used	0		NULL		-	
>Power Offset		1			-	
Information						
>>P01	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>PO2	M		Power Offset 9.2.2.29	Power offset for the TPC bits	-	
>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	-	
>FDD TPC DL Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.2.18A			<u> </u>
>Inner Loop DL PC Status	М		9.2.2.18B			
DCH Information	М		DCH FDD Information 9.2.2.4D		YES	reject
RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify

		ofRLs>				
>RL ID	М	UNLOP	9.2.1.53		_	
>C-ID	М		9.2.1.9		_	
>First RLS Indicator	М		9.2.2.16A		_	
>Frame Offset	М		9.2.1.31		_	
>Chip Offset	M		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C-		9.2.1.25			
>Diversity Control Field	NotFirstRL		0.2.1.20			
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		_	
>Initial DL Transmission Power	Μ		DL Power 9.2.1.21	Initial power on DPCH or on F-DPCH	_	
>Maximum DL Power	М		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	_	
>Minimum DL Power	М		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	_	
>Not Used	0		NULL			
>Transmit Diversity	C-Diversity		9.2.2.53		-	
Indicator	mode					
>RL Specific DCH	0		9.2.1.53G		YES	ignore
Information						
>Delayed Activation	0		9.2.1.24C		YES	reject
>Primary CPICH Usage For	0		9.2.2.33A		YES	ignore
Channel Estimation						
>Secondary CPICH Information	0		Common Physical Channel ID 9.2.1.13		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
>Synchronisation Indicator	0		9.2.2.48A		YES	ignore
>Extended Propagation Delay	0		9.2.2.35A		YES	ignore
>F-DPCH Slot Format	0		9.2.2.93		YES	reject
Transmission Gap Pattern	0		9.2.2.53A		YES	reject
Sequence Information					-	
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
DL Power Balancing Information	0		9.2.2.12B		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH-RNTI	C- InfoHSDS CH		9.2.1.31J		YES	reject
HS-PDSCH RL ID	C- InfoHSDS CH		RL ID 9.2.1.53		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E-	М		9.2.2.20C		_	
DPDCHs						

>Puncture Limit	М		9.2.1.50		-	
>E-TFCS Information	М		9.2.2.13Dh		_	
>E-TTI	М		9.2.2.13Di		-	
>E-DPCCH Power Offset	М		9.2.2.13Dj		-	
>E-RGCH 2-Index-Step	М		9.2.2.13lg		-	
Threshold						
>E-RGCH 3-Index-Step	М		9.2.2.13lh		-	
Threshold						
>HARQ Info for E-DCH	М		9.2.2.18ba		-	
>HS-DSCH Configured	М		9.2.2.18Ca		-	
Indicator						
E-DCH FDD Information	C-		9.2.2.13Da		YES	reject
	EDPCHInf					
	0		0.0.0.40D		YES	
Serving E-DCH RL	0	0.1	9.2.2.48B			reject
F-DPCH Information		01			YES	reject
>Power Offset Information		1			_	
>>PO2	M		Power	This IE shall be		
221 02	101		Offset	ignored by	_	
			9.2.2.29	Node B.		
>FDD TPC DL Step Size	М		9.2.2.16		-	
>Limited Power Increase	М		9.2.2.18A		_	
>Inner Loop DL PC Status	M		9.2.2.18B		-	
Initial DL DPCH Timing	0		9.2.2.18K		YES	ignore
Adjustment Allowed	-		_			
DCH Indicator For E-DCH-	0		9.2.2.4F		YES	reject
HSDPA Operation						
Serving Cell Change CFN	0		CFN		YES	reject
	0		9.2.1.7 9.2.2.66		YES	roject
Continuous Packet			9.2.2.00		TEO	reject
Connectivity DTX-DRX						
Information			0.0.0.00		VEO	reject
Continuous Packet	0		9.2.2.68		YES	reject
Connectivity HS-SCCH less						
Information						

Condition	Explanation
CodeLen	The IE shall be present if <i>Min UL Channelisation Code Length</i> IE equals to 4.
NotFirstRL	The IE shall be present if the RL is not the first one in the <i>RL Information</i> IE.
SlotFormat	The IE shall be present if the <i>DL DPCH Slot Format</i> IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> IE is not set to "none".
InfoHSDSCH	The IE shall be present if HS-DSCH Information IE is present.
EDPCHInfo	This IE shall be present if E-DPCH Information IE is present.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45			
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62			
CRNC Communication Context ID	Μ		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	reject
UL CCTrCH Information		0 <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>Puncture Limit	М		9.2.1.50		1	
>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot	М		9.2.3.26C		-	
Information						
>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>UL Timeslot Information LCR	М		9.2.3.26E		-	
>UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>UL DPCH Information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>UL Timeslot Information 7.68Mcps	М		9.2.3.38		_	
DL CCTrCH Information		0 <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		-	
>TDD TPC DL Step Size	М		9.2.3.21		-	
>TPC CCTrCH List		0 <maxno< td=""><td></td><td>List of uplink</td><td>-</td><td></td></maxno<>		List of uplink	-	

		CCTrCH>		CCTrCH which		
		00110112		provide TPC		
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		-	
>DL DPCH information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	Μ		9.2.3.16		_	
>>Repetition Length	Μ		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot	М		9.2.3.4E		_	
Information						
>DL DPCH information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot	М		9.2.3.40		_	
Information LCR						
>>TSTD Indicator	М		9.2.1.64		_	
>CCTrCH Initial DL	0		DL Power		YES	ignore
Transmission Power			9.2.1.21			
>CCTrCH Maximum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>CCTrCH Minimum DL	0		DL Power		YES	ignore
Transmission Power			9.2.1.21			
>DL DPCH information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16	only	_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot	М		9.2.3.39		_	
Information 7.68Mcps						
DCH Information	0		DCH TDD Information 9.2.3.4C		YES	reject
DSCH Information	0		DSCH TDD Information 9.2.3.5A		YES	reject
USCH Information	0		9.2.3.28		YES	reject
RL Information		1	ļ		YES	reject
>RL ID	М		9.2.1.53		_	
>C-ID	М		9.2.1.9		-	
>Frame Offset	M	_	9.2.1.31		-	
>Special Burst Scheduling	M	_	9.2.3.18A		-	
>Initial DL Transmission Power	Μ		DL Power 9.2.1.21		_	
>Maximum DL Power	М		DL Power 9.2.1.21		-	
>Minimum DL Power	М		DL Power 9.2.1.21		_	
>DL Time Slot ISCP Info	0		9.2.3.4F	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	_	
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	reject
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore

>Delayed Activation	0		9.2.1.24C		YES	reject
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	
>UARFCN	0		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15]	YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH-RNTI	C- InfoHSDS CH		9.2.1.31J		YES	reject
HS-PDSCH RL ID	C- InfoHSDS CH		RL ID 9.2.1.53		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.53		YES	ignore
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.45		—	
>E-TFCS Information TDD >E-DCH MAC-d Flows	M M		9.2.3.46 9.2.3.47			
Information TDD >E-DCH Non-scheduled	0		9.2.3.48		_	
Grant Information TDD						
>E-DCH TDD Information	M		9.2.3.49			
E-DCH Serving RL	0	0.4	9.2.1.53		YES	reject
E-DCH Information		01		7.68Mcps TDD only	YES	reject
7.68Mcps >E-PUCH Information	М		9.2.3.45	only		
>E-TFCS Information TDD	M		9.2.3.45		_	
>E-DCH MAC-d Flows Information TDD	M		9.2.3.47		_	
>E-DCH Non-scheduled Grant Information 7.68Mcps TDD	0		9.2.3.64		_	
>E-DCH TDD Information 7.68Mcps	М		9.2.3.65		_	
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	М		9.2.3.45a	5,	_	
>E-TFCS Information TDD	M		9.2.3.46		_	
>E-DCH MAC-d Flows Information TDD	М		9.2.3.47		_	
>E-DCH Non-scheduled Grant Information LCR TDD	0		9.2.3.48a		-	
>E-DCH TDD Information LCR	М		9.2.3.49a		_	
Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes Applicable to 1.28Mcps TDD only	YES	ignore

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UE Selected MBMS Service Information	0	9.2.3.73	This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1 28Mcns TDD	YES	ignore
			1.28Mcps TDD only.		

Range Bound	Explanation
maxnoCCTrCH	Number of CCTrCHs for one UE

Condition	Explanation
InfoHSDSCH	The IE shall be present if HS-DSCH Information IE is present.

# 9.1.37 RADIO LINK SETUP RESPONSE

### 9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	-,
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
Communication Control Port	Μ		9.2.1.15		YES	ignore
RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.39		-	
>Received Total Wide Band Power	Μ		9.2.2.39A		_	
>CHOICE Diversity	М				_	
Indication						
>>Combining						
>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	-	
>>Non Combining or First RL						
>>>DCH Information Response	Μ		9.2.1.20C		_	
>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>Not Used	0		NULL		_	
>SSDT Support Indicator	М		9.2.2.46		-	
>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.10A		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.18E		YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.69		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
Communication Control Port	М		9.2.1.15		YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Time Slot ISCP Info	М		9.2.3.26D		_	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2.3.5b		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	ignore
>RL ID	Μ		9.2.1.53		_	
>UL Time Slot ISCP Info LCR	М		9.2.3.26F		_	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2.3.5b		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.5G		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.50		YES	ignore

# 9.1.38 RADIO LINK SETUP FAILURE

### 9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		—	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	C-Success		9.2.1.48	The reserved value "All NBCC' shall not be used	YES	ignore
Communication Control Port	0		9.2.1.15		YES	ignore
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		-	
>RL Specific						
>>Unsuccessful RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		-	
>>Successful RL Information Response		0 <maxno ofRLs&gt;</maxno 		Note: There will never be maxnoofRLs repetitions of this sequence.	EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>RL Set ID	М		9.2.2.39		_	
>>>Received Total Wide Band Power	М		9.2.2.39A		-	
>>>CHOICE Diversity Indication	М				-	
>>>Combining						
>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	-	
>>>Non Combining or First RL						
>>>>DCH Information Response	Μ		9.2.1.20C		_	
>>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>>Not Used	0		NULL		-	
>>>Not Used	0		NULL		-	
>>>SSDT Support Indicator	М		9.2.2.46		-	
>>>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>>>E-DCH FDD DL	0		9.2.2.13Dc		YES	ignore

Control Channel Information				
>>>Initial DL DPCH Timing Adjustment	0	DL DPCH Timing Adjustment 9.2.2.10A	YES	ignore
>>HS-DSCH Information Response	0	HS-DSCH FDD Information Response 9.2.2.18E	YES	ignore
>>Continuous Packet Connectivity HS-SCCH less Information Response	0	9.2.2.69	YES	ignore
Criticality Diagnostics	0	9.2.1.17	YES	ignore

Condition	Explanation
Success	The IE shall be present if at least one of the radio links has been
	successfully set up.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

### 9.1.38.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	Μ		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		—	
>RL Specific						
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.53			
>>>Cause	М		9.2.1.6		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.39 RADIO LINK ADDITION REQUEST

### 9.1.39.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
Compressed Mode Deactivation Flag	0		9.2.2.3A		YES	reject
RL Information		1 <maxno ofRLs-1&gt;</maxno 			EACH	notify
>RL ID	М		9.2.1.53		-	
>C-ID	Μ		9.2.1.9		_	
>Frame Offset	М		9.2.1.31		-	
>Chip Offset	М		9.2.2.2		_	
>Diversity Control Field	М		9.2.1.25		-	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21	Initial power on DPCH or on F-DPCH	_	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	-	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	_	
>Not Used	0		NULL		—	
>Transmit Diversity Indicator	0		9.2.2.53		_	
>DL Reference Power	0		DL power 9.2.1.21	Power on DPCH or on F-DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
>Synchronisation Indicator	0		9.2.2.48A		YES	ignore
>F-DPCH Slot Format	0		9.2.2.93		YES	reject
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.18K		YES	ignore
Serving E-DCH RL	0		9.2.2.48B		YES	reject
Serving Cell Change CFN	0		CFN 9.2.1.7		YES	reject
HS-DSCH Serving Cell Change Information	0		9.2.2.18Eb		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	М		9.2.2.20C		_	

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>Puncture Limit	М	9.2.1.50	-	
>E-TFCS Information	М	9.2.2.13Dh	-	
>E-TTI	М	9.2.2.13Di	-	
>E-DPCCH Power Offset	М	9.2.2.13Dj	-	
>E-RGCH 2-Index-Step Threshold	Μ	9.2.2.13lg	-	
>E-RGCH 3-Index-Step Threshold	М	9.2.2.13lh	-	
>HARQ Info for E-DCH	М	9.2.2.18ba	-	
>HS-DSCH Configured Indicator	М	9.2.2.18Ca	YES	reject
E-DCH FDD Information	C- EDPCHInf o	9.2.2.13Da	YES	reject

Condition	Explanation
EDPCHInfo	This IE shall be present if E-DPCH Information IE is present.

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH Information		0 <maxno CCTrCH&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>UL Timeslot Information	М		9.2.3.26C		_	
>UL DPCH Information		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information LCR	М		9.2.3.26E		_	
>TDD TPC UL Step Size	0		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	reject
>UL DPCH Information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16	only	_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>UL Timeslot	M		9.2.3.38		_	
Information 7.68Mcps DL CCTrCH Information		0 <maxno CCTrCH&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>DL DPCH information		01		Applicable to 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>DL Timeslot	M		9.2.3.4E		_	
Information						
>DL DPCH information LCR		01		Applicable to 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		_	
>>TDD DPCH Offset	Μ		9.2.3.19A		_	
>>DL Timeslot Information LCR	M		9.2.3.40		-	
>CCTrCH Initial DL	0		DL Power		YES	ignore

Transmission Power			9.2.1.21			
>TDD TPC DL Step Size	0	1	9.2.3.21		YES	reject
>CCTrCH Maximum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>CCTrCH Minimum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>DL DPCH information 7.68Mcps		01	0.2.1.21	Applicable to 7.68Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16	- Children	_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>DL Timeslot Information 7.68Mcps	М		9.2.3.39		-	
RL Information		1			YES	reject
>RL ID	Μ		9.2.1.53		_	
>C-ID	М		9.2.1.9		-	
>Frame Offset	М		9.2.1.31		-	
>Diversity Control Field	М		9.2.1.25		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		-	
>Maximum DL Power	0		DL Power 9.2.1.21		-	
>Minimum DL Power	0		DL Power 9.2.1.21		_	
>DL Time Slot ISCP Info	0		9.2.3.4F	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	-	
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	reject
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>Delayed Activation	0		9.2.1.24C		YES	reject
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>Uplink Synchronisation Step Size	М		9.2.3.26H		_	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	
>UARFCN	0		9.2.1.65	Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15]	YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	O		RL ID 9.2.1.53		YES	reject
E-DCH Information		01	0.2.1.00	3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.45		_	

>E-TFCS Information TDD	Μ		9.2.3.46		_	
>E-DCH MAC-d Flows	M		9.2.3.47		_	
Information TDD			0.2.0			
>E-DCH Non-scheduled	0		9.2.3.48		_	
Grant Information TDD	-					
>E-DCH TDD Information	М		9.2.3.49		_	
E-DCH Serving RL	0		9.2.1.53		YES	reject
E-DCH Information		01		7.68Mcps TDD	YES	reject
7.68Mcps		-		only	_	- <b>,</b>
>E-PUCH Information	М		9.2.3.45		_	
>E-TFCS Information TDD	М		9.2.3.46		_	
>E-DCH MAC-d Flows	М		9.2.3.47		_	
Information TDD						
>E-DCH Non-scheduled	0		9.2.3.64		_	
Grant Information 7.68Mcps	-					
TDD						
>E-DCH TDD Information	М		9.2.3.65		_	
7.68Mcps						
E-DCH Information		01		1.28Mcps TDD	YES	reject
1.28Mcps				only		,
>E-PUCH Information LCR	М		9.2.3.45a		_	
>E-TFCS Information TDD	М		9.2.3.46		_	
>E-DCH MAC-d Flows	М		9.2.3.47		_	
Information TDD						
>E-DCH Non-scheduled	0		9.2.3.48a		_	
Grant Information LCR TDD						
>E-DCH TDD Information	М		9.2.3.49a		_	
LCR						
Power Control GAP	0		INTEGER	Unit: Number of	YES	ignore
			(1255)	subframes		-
				Applicable to		
				1.28Mcps TDD		
				only		
UE Selected MBMS Service	0		9.2.3.73	This IE	YES	ignore
Information				indicates the		-
				Time Slot		
				information		
				and/or TDM		
				information of		
				UE selected		
				MBMS service		
				in the other		
				frequency. For		
				1.28Mcps TDD		
				only .		

Range Bound	Explanation
maxnoCCTrCH	Number of CCTrCH for one UE

Condition	Explanation
HSDSCHRadioLink	The IE shall be present if HS-PDSCH RL ID IE is present

#### 9.1.40 RADIO LINK ADDITION RESPONSE

#### 9.1.40.1 FDD message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		1 <maxno ofRLs-1&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>RL Set ID	Μ		9.2.2.39		-	
>Received Total Wide Band Power	М		9.2.2.39A		-	
>CHOICE Diversity Indication	М				-	
>>Combining						
>>>RL ID	М		9.2.1.53	Reference RL	–	
>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>Non Combining						
>>>DCH Information Response	М		9.2.1.20C		—	
>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>SSDT Support Indicator	Μ		9.2.2.46		-	
>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.10A		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.18Ec		YES	ignore
E-DCH Serving Cell Change Information Response	0		9.2.2.18Ed		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.38Ac		YES	ignore

Range Bound	Explanation			
maxnoofRLs	Maximum number of RLs for one UE			

## 9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45			
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
RL Information Response		01		Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		_	
>UL Time Slot ISCP Info	М		9.2.3.26D		-	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information		01			-	
>>CHOICE Diversity Indication	М				-	
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not		
>>>>RL ID	М		9.2.1.53	Reference RL	-	
>>>Non Combining						
>>>>DCH Information Response	М		9.2.1.20C		-	
>DSCH Information Response	0		9.2.3.5b		YES	ignore
>USCH Information Response	0		9.2.3.29		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
RL Information Response LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	ignore
>RL ID	М		9.2.1.53		-	
>UL Time Slot ISCP Info LCR	М		9.2.3.26F		-	
>UL PhysCH SF Variation	М		9.2.3.26B		_	
>DCH Information		01			_	
>>CHOICE Diversity indication	М				_	
>>>Combining				Indicates whether the old Transport Bearer shall be reused or not		
>>>>RL ID	М		9.2.1.53	Reference RL	-	
>>>Non Combining						
>>>>DCH Information Response	М		9.2.1.20C		-	
>DSCH Information Response	0		9.2.3.5b		YES	ignore

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>USCH Information	0	9.2.3.29	YES	ignore
Response				
HS-DSCH Information Response	0	HS-DSCH TDD Information Response 9.2.3.5G	YES	ignore
E-DCH Information Response	0	E-DCH TDD Information Response 9.2.3.50	YES	ignore

#### 9.1.41 RADIO LINK ADDITION FAILURE

#### 9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		-	
>RL Specific						
>>Unsuccessful RL Information Response		1 <maxno ofRLs-1&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>Cause	М		9.2.1.6		-	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-2>				
>>>RL ID	М		9.2.1.53		_	
>>>RL Set ID	М		9.2.2.39		_	
>>>Received Total	М		9.2.2.39A		-	
Wide Band Power						
>>>CHOICE Diversity	М				_	
Indication						
>>>Combining						
>>>>RL ID	М		9.2.1.53	Reference RL	-	
>>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>>Non Combining						
>>>>DCH Information Response	Μ		9.2.1.20C		_	
>>>>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
>>>SSDT Support Indicator	Μ		9.2.2.46		_	
>>>DL Power Balancing Activation Indicator	0		9.2.2.12C		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.10A		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.18Ec		YES	ignore

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E-DCH Serving Cell Change	0	9.2.2.18Ed	YES	ignore
Information Response				
MAC-hs Reset Indicator	0	9.2.1.38Ac	YES	ignore

Range Bound	Explanation			
maxnoofRLs	Maximum number of RLs for one UE			

## 9.1.41.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	Μ		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		-	
>RL Specific						
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

#### FDD Message 9.1.42.1

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.59		-	
>UL SIR Target	0		UL SIR 9.2.1.67A		-	
>Min UL Channelistion Code Length	0		9.2.2.22		_	
>Max Number of UL DPDCHs	C- CodeLen		9.2.2.21		_	
>Puncture Limit	0		9.2.1.50	For UL	-	
>TFCS	0		9.2.1.58		-	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>Diversity Mode	0		9.2.2.9		_	
>Not Used	0		NULL		-	
>Not Used	0		NULL		-	
>UL DPDCH Indicator For	0		9.2.2.61		YES	reject
E-DCH Operation						
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58		_	
>DL DPCH Slot Format	0		9.2.2.10		_	
>TFCI Signalling Mode	0		9.2.2.50		-	
>TFCI Presence	C- SlotFormat		9.2.1.57		_	
>Multiplexing Position	0		9.2.2.23		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>Limited Power Increase	0		9.2.2.18A		-	
>DL DPCH Power Information		01			YES	reject
>>Power Offset		1			_	
Information		,				
>>>PO1	М		Power Offset 9.2.2.29	Power offset for the TFCI bits	_	
>>>PO2	М		Power Offset 9.2.2.29	Power offset for the TPC bits	_	
>>>PO3	М		Power Offset 9.2.2.29	Power offset for the pilot bits	_	
>>FDD TPC DL Step Size	М		9.2.2.16		_	
>>Inner Loop DL PC Status	М		9.2.2.18B		_	
DCHs To Modify	0		DCHs FDD To Modify 9.2.2.4E		YES	reject
DCHs To Add	0		DCH FDD Information		YES	reject

			9.2.2.4D			
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20		-	
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	reject
>RL ID	М		9.2.1.53		—	
>DL Code Information	0		FDD DL Code Information		_	
>Maximum DL Power	0		9.2.2.14A DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	-	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	-	
>Not Used	0		NULL		-	
>Not Used	0		NULL		—	
>Transmit Diversity Indicator	C-Diversity mode		9.2.2.53		-	
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH or on F-DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>DL DPCH Timing Adjustment	0		9.2.2.10A	Required RL Timing Adjustment	YES	reject
>Primary CPICH Usage For Channel Estimation	0		9.2.2.33A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.43A		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
>F-DPCH Slot Format	0		9.2.2.93		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.18D		YES	reject
HS-DSCH Information To Modify	0		9.2.1.31H		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.31IB		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.53		YES	reject
E-DPCH Information		01			YES	reject

>Maximum Set of E- DPDCHs	0		9.2.2.20C		_	
>Puncture Limit	0		9.2.1.50		_	
>E-TFCS Information	0		9.2.2.13Dh		-	
>E-TTI	0		9.2.2.13Di		_	
>E-DPCCH Power Offset	0		9.2.2.13Dj		_	
>E-RGCH 2-Index-Step	0		9.2.2.13lg		_	
Threshold						
>E-RGCH 3-Index-Step	0		9.2.2.13lh		-	
Threshold						
>HARQ Info for E-DCH	0		9.2.2.18ba		_	
>HS-DSCH Configured	0		9.2.2.18Ca		_	
Indicator						
E-DCH FDD Information	0		E-DCH		YES	reject
			FDD			2
			Information			
			9.2.2.13Da			
E-DCH FDD Information To Modify	0		9.2.2.13Df		YES	reject
E-DCH MAC-d Flows To Add	0	1	E-DCH		YES	reject
			MAC-d			2
			Flows			
			Information			
	0		9.2.2.13M 9.2.1.73		YES	roigot
E-DCH MAC-d Flows To Delete						reject
Serving E-DCH RL	0		9.2.2.48B		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset		1			-	
Information						
>>PO2	М		Power	This IE shall be	_	
			Offset	ignored by		
			9.2.2.29	Node B.		
>FDD TPC DL Step Size	M		9.2.2.16		-	
>Limited Power Increase	М	_	9.2.2.18A		_	
>Inner Loop DL PC Status	М		9.2.2.18B		_	
Fast Reconfiguration Mode	0		9.2.2.62		YES	ignore
CPC Information		01			YES	reject
>Continuous Packet	0		9.2.2.66			
Connectivity DTX-DRX						
Information						
>Continuous Packet	0		9.2.2.67		_	
Connectivity DTX-DRX						
Information To Modify						
>Continuous Packet	0		9.2.2.68		_	
Connectivity HS-SCCH						
less Information						
>Continuous Packet	0	1	9.2.2.69A		YES	reject
Connectivity HS-SCCH	-					
less Deactivate Indicator						
		4				

Condition	Explanation
CodeLen	The IE shall be present if the Min UL Channelisation Code Length IE is
	equals to 4.
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to any of
	the values from 12 to 16.
Diversity mode	The IE shall be present if the Diversity Mode IE is present in the UL
	DPCH Information IEand is not set to "none".
HSDSCH Radio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for a UE

## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH To Add		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		-	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>Puncture Limit	М		9.2.1.50		-	
>UL DPCH To Add Per RL		0 <maxno ofRLs&gt;</maxno 		See note 1 below	_	
>>UL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot Information	М		9.2.3.26C		-	
>>UL DPCH Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot Information LCR	М		9.2.3.26E		-	
>>UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
>>TDD TPC UL Step Size	0		9.2.3.21a	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>RL ID	0		9.2.1.53	•	YES	ignore
>>UL DPCH Information 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16	5,	_	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	M	1	9.2.3.19A		_	
>>>UL Timeslot	M	1	9.2.3.38		_	
Information 7.68Mcps						
UL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М	T	9.2.3.3		-	

>TFCS	0		9.2.1.58		_	
>TFCI Coding	0		9.2.3.22		_	
>Puncture Limit	0		9.2.1.50		_	
>UL DPCH To Modify Per	0	0 <maxno< td=""><td>0.2.1.00</td><td>See note 1</td><td>_</td><td></td></maxno<>	0.2.1.00	See note 1	_	
RL		ofRLs>		below		
>>UL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	Μ		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	Μ		9.2.3.19A		-	
>>>UL Timeslot	Μ		9.2.3.26C		_	
Information						
>>UL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		_	
>>>Repetition Length	0		9.2.3.15		-	
>>>TDD DPCH Offset	0		9.2.3.19A		-	
>>>UL Timeslot Information		0 <maxno ofULts&gt;</maxno 		Applicable to 3.84Mcps TDD only	_	
>>>>Time Slot	М		9.2.3.23		-	
>>>>Midamble Shift	0	1	9.2.3.7		_	
And Burst Type						
>>>>TFCI Presence	0		9.2.1.57		-	
>>>UL Code		0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		-	
>>>>TDD	0		9.2.3.19		-	
Channelisation Code						
>>>UL Timeslot Information LCR		0 <maxno ofULtsLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	Μ		9.2.3.24A		_	
>>>>Midamble Shift LCR	0		9.2.3.7A			
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>UL Code Information LCR		0 <maxno ofDPCHsL CR&gt;</maxno 			-	
>>>>DPCH ID	М		9.2.3.5		-	
>>>>TDD Channelisation Code LCR	0		9.2.3.19a		-	
>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
>>>PLCCH Information	0		9.2.3.31		YES	reject
>>>UL Timeslot Information 7.68Mcps		0 <maxno ofULts&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	М		9.2.3.23		—	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.35		-	
>>>TFCI Presence	0		9.2.1.57			
>>>>UL Code	-	0 <maxno< td=""><td></td><td></td><td>_  </td><td></td></maxno<>			_	
Information 7.68Mcps		ofDPCHs>				
>>>>DPCH ID	М	1	9.2.3.5		_	

	0	1	0.0.0.04			
>>>>TDD	0		9.2.3.34		_	
Channelisation Code						
7.68Mcps						· .
>>UL DPCH To Delete		0 <maxno ofDPCHs&gt;</maxno 			GLOBAL	reject
>>>DPCH ID	М	0121 01132	9.2.3.5		_	
>>UL DPCH To Add LCR		01		Applicable to	YES	reject
				1.28Mcps TDD only		
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>UL Timeslot	М		9.2.3.26E		-	
Information LCR						
>>UL SIR Target	0		UL SIR	Applicable to	YES	reject
			9.2.1.67A	1.28Mcps TDD only		- <b>j</b>
>>TDD TPC UL Step Size	0		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	reject
>>RL ID	0		9.2.1.53		YES	ignore
>>UL DPCH To Add		01		Applicable to	YES	reject
7.68Mcps				7.68Mcps TDD only		
>>>Repetition Period	М		9.2.3.16		—	
>>>Repetition Length	М		9.2.3.15		-	
>>>TDD DPCH Offset	Μ		9.2.3.19A		-	
>>>UL Timeslot	М		9.2.3.38		-	
Information 7.68Mcps						
UL CCTrCH To Delete		0 <maxno ofCCTrCH</maxno 			GLOBAL	reject
>CCTrCH ID	М	S>	9.2.3.3		_	
DL CCTrCH To Add		0., <maxno< td=""><td>0.2.0.0</td><td></td><td>GLOBAL</td><td>reject</td></maxno<>	0.2.0.0		GLOBAL	reject
DE CETTER TO Add		ofCCTrCH s>			GLODAL	10,000
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>Puncture Limit	М		9.2.1.50		_	
>TPC CCTrCH List		0 <maxno ofCCTrCH</maxno 		List of uplink CCTrCH which	-	
>>TPC CCTrCH ID	М	\$>	CCTrCH ID 9.2.3.3	provide TPC	-	
>DL DPCH To Add Per RL		0 <maxno ofRLs&gt;</maxno 		See Note 1 below	-	
>>DL DPCH Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	М		9.2.3.16		_	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
>>>DL Timeslot Information	М		9.2.3.4E		-	
>>DL DPCH Information		01		Applicable to	YES	reject
LCR				1.28Mcps TDD only		
>>>Repetition Period	М		9.2.3.16		-	
>>>Repetition Length	М		9.2.3.15		_	
>>>TDD DPCH Offset	М		9.2.3.19A		_	
	М		9.2.3.40			

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Information LCR				
>>CCTrCH Initial D Transmission Powe		DL Power 9.2.1.21	YES	ignore
>>TDD TPC DL Ste	p Size O	9.2.3.21	YES	reject

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	0		DI Daviar		VEO	
>CCTrCH Maximum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>>CCTrCH Minimum DL	0		DL Power		YES	ignore
Transmission Power	C		9.2.1.21		0	ignore
>>RL ID	0		9.2.1.53		YES	ignore
>>DL DPCH Information		01		Applicable to	YES	reject
7.68Mcps				7.68Mcps TDD only		
>>>Repetition Period	Μ		9.2.3.16		-	
>>>Repetition Length	Μ		9.2.3.15		-	
>>>TDD DPCH Offset	Μ		9.2.3.19A		-	
>>>DL Timeslot	М		9.2.3.39		-	
Information 7.68Mcps						
DL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М	-	9.2.3.3		-	
>TFCS	0		9.2.1.58		_	
>TFCI Coding	0		9.2.3.22		_	
>Puncture Limit	0		9.2.1.50		_	
>TPC CCTrCH List	-	0 <maxno< td=""><td></td><td>List of uplink</td><td>_</td><td></td></maxno<>		List of uplink	_	
		ofCCTrCH s>		CCTrCH which provide TPC		
>>TPC CCTrCH ID	Μ		CCTrCH ID 9.2.3.3		-	
>DL DPCH To Modify Per RL		0 <maxno ofRLs&gt;</maxno 		See Note 1 below	-	
>>DL DPCH To Add		01		Applicable to 3.84Mcps TDD only	YES	reject
>>>Repetition Period	Μ		9.2.3.16		_	
>>>Repetition Length	Μ		9.2.3.15		-	
>>>TDD DPCH Offset	М		9.2.3.19A		-	
>>>DL Timeslot	М		9.2.3.4E		-	
Information						
>>DL DPCH To Modify		01			YES	reject
>>>Repetition Period	0		9.2.3.16		-	
>>>Repetition Length	0		9.2.3.15		_	
>>>TDD DPCH Offset	0		9.2.3.19A		_	
>>>DL Timeslot Information		0 <maxno ofDLts&gt;</maxno 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М	<u> </u>	9.2.3.23		_	
>>>>Midamble Shift	0		9.2.3.7		_	
And Burst Type	-					
>>>TFCI Presence	0		9.2.1.57		_	
>>>>DL Code	-	0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDPCHs>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code	-					
>>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR</maxno 		Applicable to 1.28Mcps TDD	GLOBAL	reject
SSSS Time Plat LOD	М	>	9.2.3.24A	only	_	
>>>>Time Slot LCR	0		9.2.3.7A			
>>>>Midamble Shift LCR	-					
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>DL Code	•	0 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				

>>>>DPCH ID	Μ		9.2.3.5		_	
>>>>TDD	0		9.2.3.19a		_	
Channelisation Code						
LCR						
>>>>TDD DL	0		9.2.3.19D		YES	reject
DPCH Time Slot						
Format LCR						
>>>>Maximum DL	0		DL Power 9.2.1.21	Maximum	YES	ignore
Power to Modify LCR			9.2.1.21	allowed power on DPCH		
>>>>Minimum DL	0		DL Power	Minimum	YES	ignore
Power to Modify LCR			9.2.1.21	allowed power		U
				on DPCH		· · ·
>>>DL Timeslot		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD	GLOBAL	reject
Information 7.68Mcps		01DE13>		only		
>>>>Time Slot	М		9.2.3.23	Í	-	
>>>>Midamble Shift	0		9.2.3.35		_	
And Burst Type						
7.68Mcps						
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>DL Code		0 <maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
Information		ofDPCHs7 68>				
7.68Mcps		00>				
>>>>DPCH ID	Μ		9.2.3.42		-	
7.68Mcps	0		9.2.3.34			
>>>>TDD			9.2.3.34			
Channelisation Code						
7.68Mcps >>DL DPCH To Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofDPCHs>			SLOBAL	reject
>>>DPCH ID	М		9.2.3.5		-	
>>DL DPCH To Add LCR		01		Applicable to	YES	reject
				1.28Mcps TDD		
S S Denotition Devied	M	+	9.2.3.16	only	_	
>>>Repetition Period	M	+	9.2.3.10		_	
>>>Repetition Length	M	+	9.2.3.15 9.2.3.19A			
>>>TDD DPCH Offset	M		9.2.3.19A 9.2.3.40			
>>>DL Timeslot Information LCR			0.2.0.70			
>>TDD TPC DL Step Size	0		9.2.3.21		YES	reject
>>Maximum CCTrCH DL	0		DL Power		YES	ignore
Power to Modify	-		9.2.1.21			.9010
>>Minimum CCTrCH DL	0		DL Power		YES	ignore
Power to Modify			9.2.1.21			
>>RL ID	0	01	9.2.1.53	Applicable to	YES YES	ignore reject
>>DL DPCH To Add 7.68Mcps		0 1		7.68Mcps TDD	TES	reject
>>>Repetition Period	M		9.2.3.16	only	_	
>>>Repetition Length	M		9.2.3.15		_	
>>>TDD DPCH Offset	M		9.2.3.19A		_	
>>>DL Timeslot	M		9.2.3.39		_	
Information 7.68Mcps						
DL CCTrCH To Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofCCTrCH				,
		S>				
>CCTrCH ID	M		9.2.3.3		-	
DCHs To Modify	0		DCHs TDD To Modify		YES	reject

DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 	0.2.0.10		GLOBAL	reject
>DCH ID	М		9.2.1.20		-	
DSCH To Modify		0 <maxno ofDSCHs&gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.3.5a		-	
>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DSCH is mapped	_	
>Transport Format Set	0		9.2.1.59		—	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>Frame Handling Priority	0		9.2.1.30		-	
>ToAWS	0		9.2.1.61		-	
>ToAWE	0		9.2.1.60		-	
>Transport Bearer Request Indicator	М		9.2.1.62A		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
DSCH To Add	0		DSCH TDD Information 9.2.3.5A		YES	reject
DSCH To Delete		0 <maxno ofDSCHs&gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.3.5a		-	
USCH To Modify		0 <maxno ofUSCHs&gt;</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		-	
>Transport Format Set	0		9.2.1.59		-	
>Allocation/Retention Priority	0		9.2.1.1A		-	
>CCTrCH ID	0		9.2.3.3	UL CCTrCH in which the USCH is mapped	_	
>Transport Bearer Request Indicator	М		9.2.1.62A		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

>TNL QoS	0		9.2.1.58A		YES	ignore
USCH To Add	0		USCH Information 9.2.3.28		YES	reject
USCH To Delete		0 <maxno ofUSCHs&gt;</maxno 	0.2.0.20		GLOBAL	reject
>USCH ID	М		9.2.3.27		-	
RL Information		0 <maxno ofRLs&gt;</maxno 		See Note 1 below	YES	reject
>RL ID	М		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		-	
>Minimum Downlink Power	0		DL Power 9.2.1.21		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	ignore
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	М		9.2.3.26G		-	
>DL Time Slot ISCP Info LCR	0		9.2.3.4P	Applicable to 1.28Mcps TDD only	YES	ignore
>UARFCN	0		9.2.1.65	Applicable to 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15]	YES	reject
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH Information To Modify	0		9.2.1.31H		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.31IB		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.53		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.53		YES	ignore
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.45		_	
>E-TFCS Information TDD	0		9.2.3.46		—	

>E-DCH MAC-d Flows to Add	0		9.2.3.47		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		-	
>E-DCH Non-scheduled Grant Information TDD	0		9.2.3.48		-	
>E-DCH TDD Information	0		9.2.3.49		_	
>E-DCH TDD Information to	0		9.2.3.52		_	
Modify	Ŭ					
E-DCH Serving RL	0		9.2.1.53		YES	reject
E-DCH Information		01		7.68Mcps TDD	YES	reject
7.68Mcps				only		-
>E-PUCH Information	0		9.2.3.45		-	
>E-TFCS Information TDD	0		9.2.3.46		_	
>E-DCH MAC-d Flows to	0		9.2.3.47		_	
Add						
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		_	
>E-DCH Non-scheduled Grant Information 7.68Mcps	0		9.2.3.64		_	
TDD						
>E-DCH TDD Information 7.68Mcps	0		9.2.3.65		_	
>E-DCH TDD Information to	0		9.2.3.52		_	
Modify	0		9.2.3.52			
E-DCH Information 1.28Mcps		01		1.28Mcps TDD	YES	reject
	0		0.0.0.45-	only		
>E-PUCH Information LCR	0		9.2.3.45a		-	
>E-TFCS Information TDD	0		9.2.3.46		—	
>E-DCH MAC-d Flows to Add	0		9.2.3.47		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		_	
>E-DCH Non-scheduled	0		9.2.3.48a		_	
Grant Information LCR TDD	Ŭ		0.2.0.100			
>E-DCH TDD Information LCR	0		9.2.3.49a		_	
>E-DCH TDD Information to	0		9.2.3.52			
Modify			3.2.3.32		_	
Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes Applicable to 1.28Mcps TDD only	YES	ignore
UE Selected MBMS Service Information	0		9.2.3.73	This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only.	YES	ignore

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticalities.

Condition	Explanation
HSDSCHRadioLink	The IE shall be present if HS-PDSCH RL ID IE is present.

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD.
	Maximum number of uplink DPCHs in one CCTrCH for 7.68Mcps TDD
maxnoofDPCHsLCR	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD
maxnoofDPCHs768	Maximum number of downlink DPCHs in one CCTrCH for 7.68Mcps
	TDD
maxnoofDSCHs	Maximum number of DSCHs for one UE
maxnoofUSCHs	Maximum number of USCHs for one UE
maxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps
	TDD
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD
maxnoofULts	Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
<b>RL Information Response</b>		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>DCH Information	0		9.2.1.20C		YES	ignore
Response						-
>DSCH Information	0		9.2.3.5b	TDD only	YES	ignore
Response						
>USCH Information	0		9.2.3.29	TDD only	YES	ignore
Response						
>Not Used	0		NULL		-	
>DL Power Balancing	0		9.2.2.12D		YES	ignore
Updated Indicator						
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control	0		9.2.2.13Dc		YES	ignore
Channel Information						
>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	ignore
HS-DSCH FDD Information Response	0		9.2.2.18E	FDD only	YES	ignore
HS-DSCH TDD Information Response	0		9.2.3.5G	TDD only	YES	ignore
E-DCH TDD Information Response	0		E-DCH TDD Information Response 9.2.3.50	TDD only	YES	ignore
MAC-hs Reset Indicator	0		9.2.1.38Ac		YES	ignore
Fast Reconfiguration Permission	0		9.2.2.63	FDD only	YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.69	FDD only	YES	ignore

Range Bound	Explanation			
maxnoofRLs	Maximum number of RLs for a UE			

#### 9.1.44 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		—	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	Μ		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		YES	ignore
>RL Specific						
>>RLs Causing Reconfiguration Failure		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	Μ		9.2.1.53		-	
>>>Cause	Μ		9.2.1.6		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation			
maxnoofRLs	Maximum number of RLs for a UE			

#### 9.1.45 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
CFN	М		9.2.1.7		YES	ignore
Active Pattern Sequence Information	0		9.2.2.A	FDD only	YES	ignore
Fast Reconfiguration Mode	0		9.2.2.62	FDD only	YES	reject

#### 9.1.46 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message type	М		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

#### 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.61		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the DL.	-	
>TFCI Signalling Mode	0		9.2.2.50		-	
>Limited Power Increase	0		9.2.2.18A		-	
DCHs To Modify	0		DCHs FDD To Modify 9.2.2.4E		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4D		YES	reject
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.20		_	
Radio Link Information		0 <maxno ofRLs&gt;</maxno 			EACH	reject
>RL ID	М		9.2.1.53		-	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH or on F-DPCH	_	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH or on F-DPCH	_	
>DL Code Information	C-SF/2		FDD DL Code Information 9.2.2.14A		-	
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH or on F- DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>E-DCH RL Indication	0		9.2.2.13De		YES	reject
>RL Specific E-DCH Information	0		9.2.2.39a		YES	ignore
>F-DPCH Slot Format	0		9.2.2.93		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information		YES	reject

			9.2.2.18D		
HS-DSCH Information To	0		9.2.1.31HA	YES	reject
Modify Unsynchronised					
HS-DSCH MAC-d Flows To	0		HS-DSCH	YES	reject
Add			MAC-d		
			Flows		
			Information		
			9.2.1.31IA		
HS-DSCH MAC-d Flows To Delete	0		9.2.1.31IB	YES	reject
HS-DSCH-RNTI	C-		9.2.1.31J	YES	reject
	HSDSCH				
	RadioLink				
HS-PDSCH RL ID	0		RL ID	YES	reject
			9.2.1.53		-
E-DPCH Information		01		YES	reject
>Maximum Set of E-	0		9.2.2.20C	_	
DPDCHs					
>Puncture Limit	0		9.2.1.50	-	
>E-TFCS Information	0		9.2.2.13Dh	—	
>E-TTI	0		9.2.2.13Di	_	
>E-DPCCH Power Offset	0		9.2.2.13Dj	_	
	0		9.2.2.13lg		
>E-RGCH 2-Index-Step	U		5.2.2.10ig		
Threshold			0.0.0.401		
>E-RGCH 3-Index-Step	0		9.2.2.13lh	-	
Threshold					
>HARQ Info for E-DCH	0		9.2.2.18ba	—	
>HS-DSCH Configured	0		9.2.2.18Ca	-	
Indicator					
E-DCH FDD Information	0		E-DCH	YES	reject
			FDD		
			Information		
			9.2.2.13Da		
E-DCH FDD Information To Modify	0		9.2.2.13Df	YES	reject
E-DCH MAC-d Flows To Add	0		E-DCH	YES	reject
	-		FDD MAC-d		
			Flows		
			Information		
			9.2.2.13M		
E-DCH MAC-d Flows To Delete	0		9.2.1.73	YES	reject
Serving E-DCH RL	0	1	9.2.2.48B	YES	reject
CPC Information	-	01		YES	reject
>Continuous Packet	0	1	9.2.2.66	_	
Connectivity DTX-DRX					
Information					
>Continuous Packet	0		9.2.2.67		
Connectivity DTX-DRX					
Information To Modify					
>Continuous Packet	0		9.2.2.68	-	
Connectivity HS-SCCH					
less Information					
>Continuous Packet	0		9.2.2.69A	YES	reject
Connectivity HS-SCCH					
less Deactivate Indicator					

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for a UE

Condition	Explanation
SF/2	The IE shall be present if the Transmission Gap Pattern Sequence
	Information IE is included and the indicated Downlink Compressed
	Mode method for at least one of the included Transmission Gap Pattern
	Sequence is set to "SF/2".
HSDSCH Radio Link	The IE shall be present if HS-PDSCH RL ID IE is present.

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	0		9.2.1.58		_	
>Puncture Limit	0		9.2.1.50		_	
>UL SIR Target	0		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH To Delete		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М	-	9.2.3.3		-	
DL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	0		9.2.1.58		-	
>Puncture Limit	0		9.2.1.50		_	
>DL CCTrCH To Modify Per RL		0 <maxno ofRLs&gt;</maxno 		See note 1 below		
>>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>DL Timeslot Information LCR		0 <maxno ofDLtsLCR &gt;</maxno 			-	
>>>>Time Slot LCR	М		9.2.3.24A		-	
>>>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>>>>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>>CCTrCH Maximum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>>CCTrCH Minimum DL Transmission Power	0		DL Power 9.2.1.21		YES	ignore
>>RL ID	0		9.2.1.53		YES	ignore
DL CCTrCH To Delete		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.3		-	
DCHs To Modify	0		DCHs TDD To Modify 9.2.3.4D		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject

>DCH ID	М		9.2.1.20		_	
RL Information		0 <maxno ofRLs&gt;</maxno 		See note 1 below	YES	reject
>RL ID	М		9.2.1.53		_	
>Maximum Downlink Power	0		DL Power 9.2.1.21		_	
>Minimum Downlink Power	0		DL Power 9.2.1.21		_	
>RL Specific DCH Information	0		9.2.1.53G		YES	ignore
>UL Synchronisation		01		Mandatory for	YES	ignore
Parameters LCR				1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	-	
>>Uplink Synchronisation Step Size	М		9.2.3.26H		-	
>>Uplink Synchronisation Frequency	Μ		9.2.3.26G		-	
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	reject
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.5F		YES	reject
HS-DSCH Information To Modify Unsynchronised	0		9.2.1.31HA		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.31IA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.31IB		YES	reject
HS-DSCH-RNTI	C- HSDSCH RadioLink		9.2.1.31J		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.53		YES	reject
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.45		—	
>E-TFCS Information TDD	0		9.2.3.46		-	
>E-DCH MAC-d Flows to Add	0		9.2.3.47		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		-	
>E-DCH Non-scheduled Grant Information TDD	0		9.2.3.48		_	
>E-DCH TDD Information	0		9.2.3.49		-	
>E-DCH TDD Information to Modify	0		9.2.3.52		-	
E-DCH Serving RL	0	0.1	9.2.1.53		YES	reject
E-DCH Information 7.68Mcps		01	0.0.0.45	7.68Mcps TDD only	YES	reject
>E-PUCH Information >E-TFCS Information TDD	0		9.2.3.45 9.2.3.46		_	<u> </u>
>E-IFCS Information IDD >E-DCH MAC-d Flows to Add	0		9.2.3.46		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		_	
>E-DCH Non-scheduled Grant Information 7.68Mcps TDD	0		9.2.3.64		-	

>E-DCH TDD Information 7.68Mcps	0		9.2.3.65		-	
>E-DCH TDD Information to Modify	0		9.2.3.52		_	
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	0		9.2.3.45a		-	
>E-TFCS Information TDD	0		9.2.3.46		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.47		Ι	
>E-DCH MAC-d Flows to Delete	0		9.2.1.73		-	
>E-DCH Non-scheduled Grant Information LCR TDD	0		9.2.3.48a		-	
>E-DCH TDD Information LCR	0		9.2.3.49a		-	
>E-DCH TDD Information to Modify	0		9.2.3.52		-	
Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes Applicable to 1.28Mcps TDD only	YES	ignore
UE Selected MBMS Service Information	0		9.2.3.73	This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only.	YES	ignore

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticality.

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
maxnoofDCHs	Maximum number of DCHs for a UE
maxnoofRLs	Maximum number of RLs for one UE

Condition	Explanation
HSDSCHRadioLink	The IE shall be present if HS-PDSCH RL ID IE is present.

## 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
<b>RL Information Response</b>		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.12D	FDD only	YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.39		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.13Dc		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.13Db		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Target Communication Control Port ID	0		Communica tion Control Port ID 9.2.1.15		YES	ignore
HS-DSCH FDD Information Response	0		9.2.2.18E	FDD only	YES	ignore
HS-DSCH TDD Information Response	0		9.2.3.5G	TDD only	YES	ignore
E-DCH TDD Information Response	0		E-DCH TDD Information Response 9.2.3.50	TDD only	YES	ignore
MAC-hs Reset Indicator	0		9.2.1.38Ac		YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.69	FDD only	YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE

## 9.1.49 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	reject
CRNC Communication Context ID	М		9.2.1.18		YES	reject
RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	notify
>RL ID	Μ		9.2.1.53		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE

#### 9.1.50 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.51 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
Power Adjustment Type	М		9.2.2.27		YES	ignore
DL Reference Power	C- Common		DL power 9.2.1.21	Power on DPCH or on F-DPCH	YES	ignore
Inner Loop DL PC Status	0		9.2.2.18B		YES	ignore
DL Reference Power Information	C- Individual	1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		_	
>DL Reference Power	М		DL power 9.2.1.21	Power on DPCH or on F-DPCH	-	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.20		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.B		YES	ignore
Adjustment Ratio	C- CommonO rIndividual		9.2.2.C		YES	ignore

Condition	Explanation
Common	The IE shall be present if the Adjustment Type IE is equal to "Common".
Individual	The IE shall be present if the Adjustment Type IE is equal to "Individual".
CommonOrIndividual	The IE shall be present if the <i>Adjustment Type</i> IE is equal to "Common" or "Individual".

Range Bound	Explanation
maxnoofRLs	Maximum number of Radio Links for a UE

## 9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45			
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used when the Report characteristics type is set to "On Demand".	YES	reject
Measurement ID	М		9.2.1.42		YES	reject
CHOICE Dedicated Measurement Object Type	M				YES	reject
>RL >>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	reject
>>>RL ID	Μ		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>PUSCH Information		0 <maxno ofPUSCHs &gt;</maxno 		TDD only	GLOBAL	reject
>>>PUSCH ID	М		9.2.3.12		_	
>>>HS-SICH Information		0 <maxno ofHSSICH s&gt;</maxno 		TDD only	GLOBAL	reject
>>>HS-SICH ID	М		9.2.3.5Gb	For 1.28Mcps TDD, if the <i>Extended HS-</i> <i>SICH ID</i> IE is included in the <i>HS-SICH</i> <i>Information</i> IE, the <i>HS-SICH ID</i> IE shall be ignored	_	
>>>Extended HS- SICH ID	0		9.2.3.5K	Applicable to 1.28Mcps TDD only, the <i>Extended HS-</i> <i>SICH ID</i> IE shall be used if the HS-SICH identity has a value larger than 31. See note 1 below.		
>>>DPCH ID 7.68Mcps	0		9.2.3.42	Included for 7.68Mcps TDD for downlink DPCH	YES	reject
>RLS				FDD only		
>>RL Set Information		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	

		ofRLSets>				
>>>RL Set ID	М		9.2.2.39		-	
>ALL RL			NULL			
>ALL RLS			NULL	FDD only		
Dedicated Measurement Type	Μ		9.2.1.23		YES	reject
Measurement Filter Coefficient	0		9.2.1.41		YES	reject
Report Characteristics	М		9.2.1.51		YES	reject
CFN Reporting Indicator	Μ		FN Reporting Indicator 9.2.1.29B		YES	reject
CFN	0		9.2.1.7		YES	reject
Number Of Reported Cell Portions	C- BestCellP ortionsMe as		9.2.2.23D	FDD only	YES	reject
Measurement Recovery Behavior	0		9.2.1.43A		YES	ignore
Alternative Format Reporting Indicator	0		9.2.1.1B		YES	ignore

Note 1: This information element is a simplified representation of the ASN.1.

Condition	Explanation
BestCellPortionsMeas	The IE shall be present if the Dedicated Measurement Type IE is set to
	"Best Cell Portions".

Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs a measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on
maxnoofHSSICHs	Maximum number of HSSICHs per RL a measurement can be started
	on

## 9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	Μ		9.2.1.62		-	· · ·
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Measurement ID	Μ		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1		
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>Dedicated Measurement Value	М		9.2.1.24		_	
>>>CFN	0		9.2.1.7	Dedicated Measurement Time Reference	_	
>>>PUSCH Information		0 <maxno ofPUSCHs &gt;</maxno 		TDD only See note 3	GLOBAL	reject
>>>PUSCH ID	М		9.2.3.12		_	
>>>Dedicated Measurement Value	0		9.2.1.24		-	
>>>HS-SICH ID	0		9.2.3.5Gb	TDD only For 1.28Mcps TDD, if the <i>Extended HS-</i> <i>SICH ID</i> IE is included in the <i>HS-SICH</i> <i>Information</i> IE, the <i>HS-SICH ID</i> IE shall be ignored	YES	reject
>>>Multiple Dedicated Measurement Value Information		0 <maxno ofDPCHsP erRL-1&gt;</maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	ignore
>>>DPCH ID	М		9.2.3.5		_	
>>>Dedicated Measurement Value	M		9.2.1.24		-	
>>>Multiple Dedicated Measurement Value Information LCR		0 <maxno ofDPCHsL CRPerRL- 1&gt;</maxno 		Applicable to 1.28McpsTDD only	GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.5		Ι	
>>>>Dedicated Measurement Value	М		9.2.1.24		-	
>>>Multiple HS-SICH		0 <maxno< td=""><td></td><td>TDD only</td><td>GLOBAL</td><td>ignore</td></maxno<>		TDD only	GLOBAL	ignore

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Measurement Value		ofHSSICH				
Information >>>>HS-SICH ID	M	s -1>	9.2.3.5Gb	For 1.28Mcps TDD, if the <i>Extended HS-</i> <i>SICH ID</i> IE is included in the <i>HS-SICH</i> <i>Information</i> IE, the <i>HS-SICH ID</i> IE shall be ignored	_	
>>>>Dedicated Measurement Value	М		9.2.1.24		-	
>>>Extended HS- SICH ID	0		9.2.3.5K	Applicable to 1.28Mcps TDD only, the <i>Extended HS-</i> <i>SICH ID</i> IE shall be used if the HS-SICH identity has a value larger than 31.	YES	ignore
>>>DPCH ID 7.68Mcps	0		9.2.3.42	Included for 7.68Mcps TDD for downlink DPCH	YES	reject
>>>Multiple Dedicated Measurement Value Information 768Mcps		0 <maxno ofDPCHs7 68PerRL- 1&gt;</maxno 		Applicable to 7.68McpsTDD only	GLOBAL	ignore
>>>>DPCH ID 7.68Mcps	М		9.2.3.42		_	
>>>>Dedicated Measurement Value	М		9.2.1.24		_	
>>>Extended HS-SICH ID	0		9.2.3.5K	Applicable to 1.28Mcps TDD only, the <i>Extended HS-</i> <i>SICH ID</i> IE shall be used if the HS-SICH identity has a value larger than 31.	YES	reject
>RLS or ALL RLS				FDD only See Note 2		
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		-	
>>>Dedicated Measurement Value	М		9.2.1.24		_	
>>>CFN	0		9.2.1.7	Dedicated Measurement Time Reference	-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore
Measurement Recovery	0	1	9.2.1.43C		YES	ignore

Support Indicator				
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Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on
maxnoofDPCHsPerRL	Maximum number of DPCHs per RL a measurement can be started on for 3.84Mcps TDD
maxnoofDPCHsLCRPerRL	Maximum number of DPCHs per RL a measurement can be started on for 1.28Mcps TDD
maxnoofHSSICHs	Maximum number of HSSICHs per RL a measurement can be started on
maxnoofDPCHs768PerRL	Maximum number of DPCHs per RL a measurement can be started on for 7.68Mcps TDD

- Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.
- Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.
- Note 3: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality.

#### 9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.55 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45			
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore
CHOICE Dedicated Measurement Object Type	М			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL or ALL RL				See Note 1		
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>DPCH ID	0		9.2.3.5	TDD only	_	
>>>Dedicated Measurement Value Information	Μ		9.2.1.24A		-	
>>>PUSCH Information		0 <maxno ofPUSCHs &gt;</maxno 		TDD only See note 3	GLOBAL	reject
>>>>PUSCH ID	М	-	9.2.3.12		_	
>>>Dedicated Measurement Value	0		9.2.1.24		-	
>>>HS-SICH ID	0		9.2.3.5Gb	TDD only For 1.28Mcps TDD, if the <i>Extended HS-</i> <i>SICH ID</i> IE is included in the <i>HS-SICH</i> <i>Information</i> IE, the <i>HS-SICH ID</i> IE shall be ignored	YES	reject
>>>DPCH ID 7.68Mcps	0		9.2.3.42	Included for 7.68Mcps TDD for downlink DPCH	YES	reject
>>>Extended HS-SICH ID	0		9.2.3.5K	Applicable to 1.28Mcps TDD only, the <i>Extended HS-</i> <i>SICH ID</i> IE shall be used if the HS-SICH identity has a value larger than 31.	YES	ignore

				See Note 2		
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Dedicated Measurement Value Information	М		9.2.1.24A		_	
Measurement Recovery Reporting Indicator	0		9.2.1.43B		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on
maxnoofPUSCHs	Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on

- Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.
- Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.
- Note 3: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality.

#### 9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall be used if this value was used when initiating the measurement. Otherwise, the reserved value "All NBCC" shall not be used.	YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore

## 9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall be used if the Node B Communication Context ID was set to "All NBCC" when initiating the measurement. Otherwise, the reserved value "All CRNCCC" shall not be used.	YES	ignore
Measurement ID	М		9.2.1.42		YES	ignore
Cause	М		9.2.1.6		YES	ignore

# 9.1.58 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Reporting Object	М			Object for which the Failure shall be reported.	YES	ignore
>RL						
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>RL Set				FDD only		
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.39		_	
>>>Cause	М		9.2.1.6		_	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.53			
>>CCTrCH List		1 <maxno ofCCTrCH s&gt;</maxno 			EACH	ignore
>>>CCTrCH ID	М		9.2.3.3		_	
>>>Cause	М		9.2.1.6		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE
maxnoofRLSets	Maximum number of RL Sets for one UE
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE

# 9.1.59 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
CHOICE Reporting Object	м			Object for which the Restoration shall be reported.	YES	ignore
>RL				TDD only		
>>Radio Link Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>RL Set				FDD only		
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.39		_	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.53		_	
>>CCTrCH List		1 <maxno ofCCTrCH s&gt;</maxno 			EACH	ignore
>>>CCTrCH ID	М		CCTrCH ID 9.2.3.3		-	

Range Bound	Explanation	
maxnoofRLs	Maximum number of RLs for one UE	
maxnoofRLSets	Maximum number of RL Sets for one UE	
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE	

# 9.1.60 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
Active Pattern Sequence Information	Μ		9.2.2.A		YES	ignore

#### 9.1.61 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	0		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Node B Communication Context ID	0		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
Cause	0		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

#### 9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST

#### 9.1.62.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
Configuration Generation ID	М		9.2.1.16		YES	reject
SFN	0		9.2.1.53A		YES	reject
HS-PDSCH, HS-SCCH,E- AGCH, E-RGCH and E-HICH Total Power	0		Maximum Transmissio n Power 9.2.1.40	Maximum transmission power to be allowed for HS- PDSCH, HS- SCCH, E- AGCH, E- RGCH and E- HICH codes	YES	reject
HS-PDSCH And HS-SCCH Scrambling Code	0		DL Scrambling Code 9.2.2.13	Scrambling code on which HS-PDSCH and HS-SCCH is transmitted. 0= Primary scrambling code of the cell 115 = Secondary scrambling code	YES	reject
HS-PDSCH FDD Code Information	0		9.2.2.18F		YES	reject
HS-SCCH FDD Code Information	0		9.2.2.18G		YES	reject

E-AGCH And E-RGCH/E- HICH FDD Scrambling Code	0		DL Scrambling Code 9.2.2.13	Scrambling code on which E-AGCH, E- RGCH and E- HICH are transmitted. 0= Primary scrambling code of the cell 115 = Secondary scrambling code	YES	reject
E-AGCH Code FDD Information	0		9.2.2.13lb		YES	reject
E-RGCH/E-HICH Code FDD Information	0		9.2.2.13la		YES	reject
HSDPA And E-DCH Cell Portion Information		0 <maxno ofCellPorti ons&gt;</maxno 			GLOBAL	reject
>Cell Portion ID	М		9.2.2.1Ca		-	
>HS-PDSCH And HS- SCCH Scrambling Code	0		DL Scrambling Code 9.2.2.13	Scrambling code on which HS-PDSCH and HS-SCCH is transmitted over cell portion.	-	
>HS-PDSCH FDD Code Information	0		9.2.2.18F		—	
>HS-SCCH FDD Code Information	0		9.2.2.18G		—	
>HS-PDSCH, HS-SCCH, E- AGCH, E-RGCH and E- HICH Total Power	0		Maximum Transmissio n Power 9.2.1.40	Maximum transmission power to be allowed for HS- PDSCH, HS- SCCH and E- AGCH, E- RGCH and E- HICH codes over cell portion	_	
>E-AGCH And E-RGCH/E- HICH FDD Scrambling Code	0		DL Scrambling Code 9.2.2.13	Scrambling code on which E-AGCH, E- RGCH and E- HICH are transmitted over cell portion.	_	
>E-AGCH Code FDD Information	0		9.2.2.13lb		_	
>E-RGCH/E-HICH Code FDD Information	0		9.2.2.13la		-	
Maximum Target Received Total Wide Band Power	0		9.2.2.21a		YES	reject
Reference Received Total Wide Band Power	0		9.2.2.39B		YES	ignore
Target Non-serving E-DCH to Total E-DCH Power ratio	0		9.2.2.21b		YES	reject
HS-DSCH Common System Information	0		9.2.2.75		YES	reject

Common MAC Flows to	0	9.2.2.97	YES	reject
Delete				
HS-DSCH Paging System	0	9.2.2.76	YES	reject
Information				
Paging MAC Flows to Delete	0	9.2.2.98	YES	reject

Range Bound	Explanation
MaxNoofCellPortions	Maximum number of Cell Portions in a cell

#### 9.1.62.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	•		
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
C-ID	М		9.2.1.9		YES	reject
SFN	0		9.2.1.53A		YES	reject
PDSCH Sets To Add		0 <maxno ofPDSCH Sets&gt;</maxno 			GLOBAL	reject
>PDSCH Set ID	Μ		9.2.3.11		-	
>PDSCH To Add Information		01		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	YES	reject
>>Repetition Period	Μ		9.2.3.16		-	
>>Repetition Length	Μ		9.2.3.15		-	
>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>DL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofDLts>				
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift And Burst Type	М		9.2.3.7		_	
>>>TFCI Presence	Μ		9.2.1.57		_	
>>>DL Code Information		1 <maxno ofPDSCHs &gt;</maxno 			_	
>>>PDSCH ID	М		9.2.3.10		_	
>>>>TDD Channelisation Code	М		9.2.3.19		_	
>PDSCH To Add Information LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	YES	reject
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD Physical Channel Offset	М		9.2.3.20		_	
>>DL Timeslot Information LCR		1 <maxno ofDLtsLCR</maxno 			-	
>>>Time Slot LCR	Μ	>	9.2.3.24A		_	

>>>Midamble Shift	М		9.2.3.7A		_	
LCR			0.2.0177			
>>>TFCI Presence	М		9.2.1.57		-	
>>>DL Code Information LCR		1 <maxno ofPDSCHs &gt;</maxno 			-	
>>>>PDSCH ID	М	-	9.2.3.10		_	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		-	
>>>>TDD DL DPCH Time Slot Format LCR	0		9.2.3.19D		YES	reject
>>TSTD Indicator	0		9.2.1.64		YES	reject
>PDSCH To Add Information 7.68Mcps		01		Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84Mcps TDD.	YES	reject
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		-	
>>TDD Physical Channel Offset	М		9.2.3.20		-	
>>DL Timeslot		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information 7.68Mcps		ofDLts>				
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift And Burst Type 7.68Mcps	Μ		9.2.3.35		_	
>>>TFCI Presence	М		9.2.1.57		_	
>>>DL Code Information 7.68Mcps		1 <maxno ofPDSCHs &gt;</maxno 			-	
>>>>PDSCH ID 7.68Mcps	М		9.2.3.43		-	
>>>>TDD Channelisation Code 7.68Mcps	M		9.2.3.34		-	
PDSCH Sets To Modify		0 <maxno of PDSCHSe ts&gt;</maxno 			GLOBAL	reject
>PDSCH Set ID	М		9.2.3.11		-	
>CHOICE HCR or LCR or 7.68 Mcps	м			See note 1 below	_	
>>3.84Mcps TDD					_	
>>>PDSCH To Modify Information		1			YES	reject
>>>Repetition Period	0		9.2.3.16		-	
>>>Repetition Length	0		9.2.3.15		-	
>>>>TDD Physical Channel Offset	0		9.2.3.20		-	
>>>>DL Timeslot Information		0 <maxno ofDLts&gt;</maxno 			-	
>>>>Time Slot	М		9.2.3.23		—	

			1		
>>>>Midamble	0		9.2.3.7	-	
Shift And Burst					
Туре					
>>>>TFCI	0		9.2.1.57	_	
	U		5.2.1.57		
Presence					
>>>>DL Code		0 <maxno< td=""><td></td><td>-</td><td></td></maxno<>		-	
Information		ofPDSCHs			
		>			
>>>>PDSCH	Μ		9.2.3.10	-	
ID					
>>>>>TDD	М		9.2.3.19	_	
Channelisation					
Code					
>>1.28Mcps TDD					
		1		YES	reject
>>>PDSCH To Modify		1		163	reject
Information LCR					
>>>Repetition	0		9.2.3.16	-	
Period					
>>>Repetition	0		9.2.3.15	_	
Length					
	0		9.2.3.20	_	
>>>>TDD Physical	U		3.2.3.20		
Channel Offset			<u> </u>		
>>>>DL Timeslot		0 <maxno< td=""><td></td><td>-</td><td></td></maxno<>		-	
Information LCR		ofDLtsLCR			
		>			
>>>>Time Slot	М		9.2.3.24A	-	
LCR					
>>>>Midamble	0		9.2.3.7A	_	
Shift LCR					
>>>>TFCI	0		9.2.1.57	_	
Presence	-				
		0 <maxno< td=""><td></td><td>_</td><td></td></maxno<>		_	
>>>>DL Code		ofPDSCHs		_	
Information LCR		>			
>>>>PDSCH	М	-	9.2.3.10	_	
	101		5.2.0.10		
ID					
>>>>TDD	Μ		9.2.3.19a	_	
Channelisation					
Code LCR					
>>>>TDD DL	0		9.2.3.19D	YES	reject
DPCH Time Slot				_	- ,
Format LCR			<u> </u>		
>>7.68Mcps TDD				-	
>>>PDSCH To Modify		1		YES	reject
Information 7.68Mcps					
>>>Repetition	0		9.2.3.16	-	
Period					
>>>Repetition	0		9.2.3.15	_	
-	-				
Length	0		0.2.2.20		
>>>>TDD Physical			9.2.3.20	-	
Channel Offset			ļ		
>>>>DL Timeslot		0 <maxno< td=""><td></td><td>-</td><td></td></maxno<>		-	
Information		ofDLts>			
7.68Mcps					
				1	
>>>>Time Clot	М		9.2.3.23	—	
>>>>Time Slot	M		9.2.3.23	-	
>>>>Midamble	M O		9.2.3.23	-	
				-	

	-		1			
>>>>TFCI	0		9.2.1.57		-	
Presence		0				
>>>>DL Code		0 <maxno ofPDSCHs</maxno 			_	
Information		>				
7.68Mcps			0.0.0.40			
>>>>PDSCH ID 7.68Mcps	Μ		9.2.3.43		_	
>>>>TDD	М		9.2.3.34		_	
Channelisation			0.2.0.0			
Code 7.68Mcps						
PDSCH Sets To Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		of				,
		PDSCHSe				
		ts>	0.0.0.44			
>PDSCH Set ID	М	0	9.2.3.11		-	
PUSCH Sets To Add		0 <maxno of</maxno 			GLOBAL	reject
		PUSCHSe				
		ts>				
>PUSCH Set ID	М		9.2.3.13		—	
>PUSCH To Add		01		Mandatory for	YES	reject
Information				3.84Mcps TDD.		
				Not Applicable to 1.28Mcps		
				TDD or		
				7.68Mcps TDD.		
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD Physical	М		9.2.3.20		_	
Channel Offset						
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Information		ofULts>				
>>>Time Slot	М		9.2.3.23		-	
>>>Midamble Shift	М		9.2.3.7		_	
And Burst Type						
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofPUSCHs				
	Μ	>	9.2.3.12			
>>>>PUSCH ID	M		9.2.3.12			
>>>>TDD Channelisation Code			0.2.0.13			
>PUSCH To Add		01		Mandatory for	YES	reject
Information LCR		0		1.28Mcps TDD.	120	reject
				Not Applicable		
				to 3.84Mcps		
				TDD or 7.68Mcps TDD.		
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		_	
>>TDD Physical	M		9.2.3.20		_	
Channel Offset						
>>UL Timeslot		1 <maxno< td=""><td> </td><td></td><td>_</td><td></td></maxno<>			_	
Information LCR		ofULtsLCR				
		>				
>>>Time Slot LCR	M	ļ	9.2.3.24A		—	
>>>Midamble Shift	М		9.2.3.7A		—	
LCR						
	Μ	1	9.2.1.57		-	
>>>TFCI Presence	IVI					
>>>UL Code Information LCR		1 <maxno ofPUSCHs</maxno 			-	

>>>PUSCH ID	М		9.2.3.12		_	
>>>TDD	M		9.2.3.19a		_	
Channelisation Code LCR			0.2.0110u			
>>>>TDD UL DPCH Time Slot Format LCR	0		9.2.3.21C		YES	reject
>PUSCH To Add Information 7.68Mcps		01		Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD.	YES	reject
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		_	
>>TDD Physical	М		9.2.3.20		_	
Channel Offset						
>>UL Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information 7.68Mcps		ofULts>				
>>>Time Slot	М		9.2.3.23		_	
>>>Midamble Shift	М		9.2.3.35		_	
And Burst Type						
7.68Mcps						
>>>TFCI Presence	М		9.2.1.57		_	
>>>UL Code		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information 7.68Mcps		ofPUSCHs >				
>>>>PUSCH ID	М		9.2.3.12		_	
>>>>TDD	М		9.2.3.34		_	
Channelisation Code						
7.68Mcps						
PUSCH Sets To Modify		0 <maxno of PUSCHSe ts&gt;</maxno 			GLOBAL	reject
>PUSCH Set ID	М		9.2.3.13		-	
>CHOICE HCR or LCR or 7.68Mcps	М			See note 1 below	_	
>>3.84Mcps TDD					_	
>>>PUSCH To Modify Information		1			YES	reject
>>>Repetition Period	0		9.2.3.16		_	
>>>Repetition Length	0		9.2.3.15		-	
>>>>TDD Physical Channel Offset	0		9.2.3.20		_	
>>>UL Timeslot Information		0 <maxno ofULts&gt;</maxno 			-	
>>>>Time Slot	М		9.2.3.23		_	
>>>>Midamble	0	1	9.2.3.7		_	
Shift And Burst Type						
>>>>TFCI Presence	0		9.2.1.57		-	
>>>>UL Code Information		0 <maxno ofPUSCHs</maxno 			-	
>>>>PUSCH ID	М	>	9.2.3.12		_	

	М		9.2.3.19		
>>>>>TDD	IVI		9.2.3.19	_	
Channelisation					
Code					
>>1.28Mcps TDD				_	
>>>PUSCH To Modify		1		YES	reject
Information LCR					
>>>Repetition	0		9.2.3.16	_	
Period					
>>>Repetition	0		9.2.3.15	_	
-	Ŭ		0.2.0.10		
Length	0		9.2.3.20		
>>>>TDD Physical	0		9.2.3.20	_	
Channel Offset					
>>>>UL Timeslot		0 <maxno< td=""><td></td><td>-</td><td></td></maxno<>		-	
Information LCR		ofULtsLCR			
	M	>	9.2.3.24A		
>>>>Time Slot	IVI		9.Z.3.Z4A	_	
LCR					
>>>>Midamble	0		9.2.3.7A	-	
Shift LCR					
>>>>TFCI	0		9.2.1.57	-	
Presence					
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td></td></maxno<>			
Information LCR		ofPUSCHs			
		>			
>>>>PUSCH	М		9.2.3.12	-	
ID					
>>>>TDD	М		9.2.3.19a	_	
Channelisation					
Code LCR					
	0		9.2.3.21C	YES	reject
>>>>>TDD UL	U		9.2.3.210	TES	reject
DPCH Time Slot					
Format LCR					
>>7.68Mcps TDD				-	
>>>PUSCH To Modify		1		YES	reject
Information 7.68Mcps					
>>>Repetition	0		9.2.3.16	—	
Period					
>>>Repetition	0		9.2.3.15	_	
Length	-				
	0		9.2.3.20		
>>>>TDD Physical	U		3.2.3.20		
Channel Offset					
>>>>UL Timeslot		0 <maxno ofULts&gt;</maxno 		-	
Information		010218>			
7.68Mcps		1			
>>>>Time Slot	М		9.2.3.23	-	
>>>>Midamble	0		9.2.3.35	-	
Shift And Burst					
Type 7.68Mcps					
>>>>TFCI	0	1	9.2.1.57	_	
Presence	-				
>>>>UL Code		0 <maxno< td=""><td></td><td></td><td></td></maxno<>			
		ofPUSCHs		_	
Information		>			
7.68Mcps		·			
>>>>PUSCH	М		9.2.3.12	-	
ID					
>>>>TDD	М		9.2.3.34	-	
Channelisation					
Code 7.68Mcps					
		1	· · ·		

PUSCH Sets To Delete		0 <maxno ofPUSCH Sets&gt;</maxno 			GLOBAL	reject
>PUSCH Set ID	М		9.2.3.13		-	
HS-PDSCH TDD Information		01			GLOBAL	reject
>DL Timeslot and Code Information		0 <maxno ofDLts&gt;</maxno 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	-	
>>Time Slot	М		9.2.3.23		—	
>>Midamble Shift And Burst Type	М		9.2.3.7		-	
>>Codes		1 <maxno ofHSPDS CHs&gt;</maxno 			-	
>>>TDD Channelisation Code	М		9.2.3.19		_	
>>HS-PDSCH and HS- SCCH Total Power	0		Maximum Transmissio n Power 9.2.1.40	Maximum transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the timeslot	YES	reject
>DL Timeslot and Code Information LCR per UARFCN		0 <maxfreq uencyinCe II&gt;</maxfreq 		Mandatory for 1.28Mcps TDD Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. See note 2 below	EACH	reject
>>DL Timeslot and Code Information LCR		0 <maxno ofDLtsLCR &gt;</maxno 			-	
>>>Time Slot LCR	М		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		-	
>>>Codes LCR		1 <maxno ofHSPDS CHs&gt;</maxno 			_	
>>>>TDD Channelisation Code	М		9.2.3.19		-	
>>>HS-PDSCH and HS-SCCH Total Power	0		Maximum Transmissio n Power 9.2.1.40	Maximum transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the timeslot	YES	reject
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	-	

	1	0		Mondotory for		roigot
>DL Timeslot and Code Information 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD.	GLOBAL	reject
>>Time Slot	М		9.2.3.23		_	
>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		-	
>>Codes 7.68Mcps		1 <maxno ofHSPDS CHs768&gt;</maxno 			_	
>>>TDD Channelisation Code 7.68Mcps	Μ		9.2.3.34		-	
>>HS-PDSCH and HS- SCCH Total Power	0		Maximum Transmissio n Power 9.2.1.40	Maximum transmission power to be allowed for HS- PDSCH and HS-SCCH codes in the timeslot	_	_
Add to HS-SCCH Resource Pool		01			GLOBAL	reject
>HS-SCCH Information		0 <maxno ofHSSCC Hs&gt;</maxno 		Applicable to 3.84Mcps TDD only	-	
>>HS-SCCH ID	М		9.2.3.5Ga	0	-	
>>Time Slot	М		9.2.3.23		-	
>>Midamble Shift And Burst Type	М		9.2.3.7		_	
>>TDD Channelisation Code	М		9.2.3.19		-	
>>Maximum HS-SCCH Power	М		DL Power 9.2.1.21		—	
>>HS-SICH Information		1			-	
>>>HS-SICH ID	М		9.2.3.5Gb		-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift And Burst Type	М		9.2.3.7		_	
>>>TDD Channelisation Code	М		9.2.3.19		-	
>HS-SCCH Information LCR		0 <maxno ofHSSCC Hs&gt;</maxno 		Applicable to 1.28Mcps TDD only See note 3 below	-	
>>HS-SCCH ID	Μ		9.2.3.5Ga	If the Extended HS-SCCH ID IE is included in the HS-SCCH Information LCR IE, the HS-SCCH ID IE shall be ignored.	_	
>>Time Slot LCR	М		9.2.3.24A		-	
>>Midamble Shift LCR	М		9.2.3.7A		-	
>>First TDD Channelisation Code	M		TDD Channelisat ion Code 9.2.3.19		-	

>>Second TDD	М		TDD Channelisat		_	
Channelisation Code			ion Code			
			9.2.3.19			
>>Maximum HS-SCCH	М		DL Power		-	
Power			9.2.1.21			
>>HS-SICH Information		1			-	
LCR						
>>>HS-SICH ID	М		9.2.3.5Gb	If the Extended	-	
				HS-SICH ID IE		
				is included in the HS-SICH		
				Information		
				LCR IE, the		
				HS-SICH ID IE		
				shall be		
Time Olet LOD	Μ		9.2.3.24A	ignored.	_	
>>>Time Slot LCR	M		9.2.3.7A		_	
>>>Midamble Shift	101		9.2.3.7A		_	
LCR >>>TDD	Μ		9.2.3.19		_	
	101		3.2.3.13		_	
Channelisation Code >>>Extended HS-SICH	0	1	9.2.3.5K	The Extended	YES	ignore
ID	Ũ		0.2.0.01	HS-SICH ID IE	120	ignore
ID				shall be used if		
				the HS-SICH		
				identity has a		
				value larger than 31.		
>>Extended HS-SCCH	0		9.2.3.5J	The Extended	YES	ignore
ID	•		0.2.0100	HS-SCCH ID IE		ignere
				shall be used if		
				the HS-SCCH		
				identity has a		
				value larger than 31.		
>>UARFCN	0		9.2.1.65	Corresponds to	YES-	ignore
				Nt [15]		C
				Mandatory for		
				1.28Mcps TDD		
				when using multiple		
				frequencies.		
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
7.68Mcps		ofHSSCC		7.68Mcps TDD		
	Μ	Hs>	9.2.3.5Ga	only		
>>HS-SCCH ID	M		9.2.3.5Ga 9.2.3.23		-	
>>Time Slot	M		9.2.3.23		_	
>>Midamble Shift And	171		3.2.3.30		_	
Burst Type 7.68Mcps >>TDD Channelisation	Μ	1	9.2.3.34		_	
Solution Code 7.68Mcps			0.2.0.04			
>>Maximum HS-SCCH	M	+	DL Power		_	
Power			9.2.1.21			
>>HS-SICH Information	1	1			_	
7.68Mcps						
>>>HS-SICH ID	М	1	9.2.3.5Gb		_	
>>>Time Slot	M	1	9.2.3.23		_	
>>>Midamble Shift	M	1	9.2.3.35		_	
And Burst Type						
7.68Mcps						
	1	1	1	1		

700	N.4		0.0.0.04			
>>>TDD	М		9.2.3.34		_	
Channelisation Code						
7.68Mcps		0.4				·
Modify HS-SCCH		01			GLOBAL	reject
Resource Pool						
>HS-SCCH Information		0 <maxno ofHSSCC Hs&gt;</maxno 		Applicable to 3.84Mcps TDD only	_	
>>HS-SCCH ID	М	-	9.2.3.5Ga		_	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And Burst Type	0		9.2.3.7		-	
>>TDD Channelisation Code	0		9.2.3.19		-	
>>Maximum HS-SCCH Power	0		DL Power 9.2.1.21		-	
>>HS-SICH Information		01			_	
>>>HS-SICH ID	М		9.2.3.5Gb		_	
>>>Time Slot	0	1	9.2.3.23		_	
>>>Midamble Shift And Burst Type	0		9.2.3.7		-	
>>>TDD Channelisation Code	0		9.2.3.19		-	
>HS-SCCH Information LCR		0 <maxno ofHSSCC Hs&gt;</maxno 		Applicable to 1.28Mcps TDD only See note 3 below	-	
>>HS-SCCH ID	Μ		9.2.3.5Ga	If the Extended HS-SCCH ID IE is included in the HS-SCCH Information LCR IE, the HS-SCCH ID IE shall be ignored.	_	
>>Time Slot LCR	0		9.2.3.24A		-	
>>Midamble Shift LCR	0		9.2.3.7A		_	
>>First TDD Channelisation Code	0		TDD Channelisat ion Code 9.2.3.19		-	
>>Second TDD Channelisation Code	0		TDD Channelisat ion Code 9.2.3.19		-	
>>Maximum HS-SCCH Power	0		DL Power 9.2.1.21		_	
>>HS-SICH Information LCR		01			-	
>>>HS-SICH ID	Μ		9.2.3.5Gb	If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored.	_	
>>>Time Slot LCR	0		9.2.3.24A		-	
>>Midamble Shift LCR	0	1	9.2.3.7A		_	

			0.0.0.40			
>>>TDD Channeligation Code	0		9.2.3.19		-	
Channelisation Code >>>Extended HS-SICH ID	0		9.2.3.5K	The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31.	YES	ignore
>>Extended HS-SCCH ID	0		9.2.3.5J	The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31.	YES	ignore
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.	YES	ignore
>HS-SCCH Information		0 <maxno< td=""><td></td><td>Applicable to</td><td>GLOBAL</td><td>reject</td></maxno<>		Applicable to	GLOBAL	reject
7.68Mcps		ofHSSCC Hs>		7.68Mcps TDD only		
>>HS-SCCH ID	М	110	9.2.3.5Ga	only	_	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		-	
>>TDD Channelisation Code 7.68Mcps	М		9.2.3.34		-	
>>Maximum HS-SCCH Power	0		DL Power 9.2.1.21		-	
>>HS-SICH Information 7.68Mcps		01			-	
>>>HS-SICH ID	М		9.2.3.5Gb		_	
>>>Time Slot	0		9.2.3.23		_	
>>>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.35		-	
>>>TDD Channelisation Code 7.68Mcps	M		9.2.3.34		-	
Delete from HS-SCCH Resource Pool		0 <maxno of HSSCCHs &gt;</maxno 		For 1.28Mcps TDD ,see note 3 below	GLOBAL	reject
>HS-SCCH ID	Μ		9.2.3.5Ga	For 1.28Mcps TDD, if the <i>Extended HS-</i> <i>SCCH ID</i> IE is included in the <i>Delete from</i> <i>HS-SCCH</i> <i>Resource Pool</i> IE, the <i>HS-</i> <i>SCCH ID</i> IE shall be ignored	_	

>Extended HS-SCCH ID	0		9.2.3.5J	Applicable to 1.28Mcps TDD only, the <i>Extended HS-</i> <i>SCCH ID</i> IE shall be used if the HS-SCCH identity has a value larger than 31.	YES	ignore
Configuration Generation ID	0		9.2.1.16		YES	reject
E-PUCH Information		01		3.84Mcps TDD	GLOBAL	reject
				only		-
>LTGI Presence	M		9.2.3.58		_	
>SNPL Reporting Type	M		9.2.3.62		-	
>Midamble Shift And Burst Type	М		9.2.3.7		-	
>E-PUCH Timeslot Information		1 <maxno ofEPUCHs lots&gt;</maxno 			-	
>>Time Slot	М		9.2.3.23			
Add to E-AGCH Resource Pool		01		3.84Mcps TDD only	GLOBAL	reject
>E-AGCH Information		0 <maxno ofEAG CHs&gt;</maxno 			-	
>>E-AGCH ID TDD	М		9.2.3.51		-	
>>Time Slot	М		9.2.3.23		—	
>>Midamble Shift And Burst Type	М		9.2.3.7		—	
>>TDD Channelisation Code	М		9.2.3.19		-	
>>Maximum E-AGCH Power	М		DL Power 9.2.1.21		-	
Modify E-AGCH Resource Pool		01		3.84Mcps TDD only	GLOBAL	reject
>E-AGCH Information		0 <maxno ofEAG CHs&gt;</maxno 			-	
>>E-AGCH ID TDD	М		9.2.3.51		_	
>>Time Slot	0		9.2.3.23		—	
>>Midamble Shift And Burst Type	0		9.2.3.7		-	
>TDD Channelisation Code	0		9.2.3.19		-	
>>Maximum E-AGCH Power	0		DL Power 9.2.1.21		-	
Delete from E-AGCH Resource Pool		0 <maxno ofEAG CHs&gt;</maxno 			GLOBAL	reject
>E-AGCH ID TDD	М		9.2.3.51			
E-HICH Information		01		3.84Mcps TDD only	GLOBAL	reject
>Midamble Shift And Burst Type	М		9.2.3.7		-	
>TDD Channelisation Code	М		9.2.3.19		-	
>Maximum E-HICH Power	М		DL Power 9.2.1.21		-	
Maximum Generated Received Total Wide Band Power in Other Cells	0		9.2.3.63	Applicable to 3.84Mcps and 7.68 Mcps TDD only	YES	reject
E-PUCH Information 7.68Mcps		01		7.68Mcps TDD only	GLOBAL	reject

>LTGI Presence	М		9.2.3.58		_	
>SNPL Reporting Type	М		9.2.3.62		-	
>Midamble Shift And Burst	М		9.2.3.35		_	
Type 7.68Mcps						
>E-PUCH Timeslot		1 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
Information		ofEPUCHs				
		lots>				
>>Time Slot	М		9.2.3.23		_	
Add to E-AGCH Resource		01		7.68Mcps TDD	GLOBAL	reject
Pool 7.68Mcps				only		
>E-AGCH Information		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
		ofEAG				
		CHs>				
>>E-AGCH ID TDD	М		9.2.3.51		_	
>>Time Slot	М		9.2.3.23		_	
>>Midamble Shift And	М		9.2.3.35		_	
Burst Type 7.68Mcps						
>>TDD Channelisation	М		9.2.3.34		_	
Code 7.68Mcps						
>>Maximum E-AGCH	М		DL Power		-	
Power			9.2.1.21			
Modify E-AGCH Resource		01		7.68Mcps TDD	GLOBAL	reject
Pool 7.68Mcps				only		
>E-AGCH Information		0 <maxno< td=""><td></td><td></td><td>—</td><td></td></maxno<>			—	
		ofEAG				
		CHs>				
>>E-AGCH ID TDD	М		9.2.3.51		_	
>>Time Slot	0		9.2.3.23		_	
>>Midamble Shift And	0		9.2.3.35		—	
Burst Type 7.68Mcps						
>>TDD Channelisation	0		9.2.3.34		—	
Code 7.68Mcps	_					
>>Maximum E-AGCH	0		DL Power		-	
Power			9.2.1.21			
E-HICH Information		01		7.68Mcps TDD	GLOBAL	reject
7.68Mcps				only		

			1			
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		-	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.34		_	
>Maximum E-HICH Power	М		DL Power 9.2.1.21		_	
E-PUCH Information 1.28Mcps		01	3.2.1.21	1.28Mcps TDD only	GLOBAL	reject
>LTGI Presence	M		9.2.3.58	Only	_	
>SNPL Reporting Type	M		9.2.3.62			
>E-PUCH Timeslot		0 <maxfr< td=""><td>0.2.0.02</td><td>See note 2</td><td></td><td></td></maxfr<>	0.2.0.02	See note 2		
information 1.28Mcps per UARFCN		equencyin Cell>		below		
>>E-PUCH Timeslot Information 1.28Mcps		0 <maxno ofEPUCHs lotsLCR&gt;</maxno 			-	
>>>Time Slot LCR	Μ		9.2.3.24A		_	
>>>Midamble Shift LCR	М		9.2.3.7A		_	
>>>Codes LCR		1 <maxno ofEPUCHc odes&gt;</maxno 			-	
>>>>TDD Channelisation Code	М		9.2.3.19		_	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
Add to E-AGCH Resource Pool 1.28Mcps		01		1.28Mcps TDD only	GLOBAL	reject
>E-AGCH Information 1.28Mcps		1 <maxno ofEAG CHs&gt;</maxno 			-	
>>E-AGCH ID TDD	М	Childr	9.2.3.51		_	
>>Time Slot LCR	M		9.2.3.24A		_	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>>First TDD	М		TDD		_	
Channelisation Code			Channelisat ion Code 9.2.3.19			
>>Second TDD Channelisation Code	M		TDD Channelisat ion Code 9.2.3.19		-	
>>Maximum E-AGCH Power	М		DL Power 9.2.1.21		_	
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
Modify E-AGCH Resource Pool 1.28Mcps		01		1.28Mcps TDD only	GLOBAL	reject
>E-AGCH Information 1.28Mcps		1 <maxno ofEAG CHs&gt;</maxno 			-	
>>E-AGCH ID TDD	М	-	9.2.3.51		_	
	1.41					
>>Time Slot LCR	0		9.2.3.24A		_	

E: (TDD			TOP			
>>First TDD	0		TDD		-	
Channelisation Code			Channelisat ion Code			
			9.2.3.19			
>>Second TDD	0		TDD		_	
Channelisation Code			Channelisat			
			ion Code			
			9.2.3.19			
>>Maximum E-AGCH	0		DL Power		-	
Power			9.2.1.21			
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
				Nt [15] Mandatory for		
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
Add to E-HICH Resource		01		1.28Mcps TDD	GLOBAL	reject
Pool 1.28Mcps				only		
>E-HICH Information		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
1.28Mcps		ofEHICHs				
>>E-HICH ID TDD	M	>	9.2.3.51a	If the Extended		
			3.2.3.31a	E-HICH ID TDD	_	
				IE is included in		
				the E-HICH		
				Information		
				1.28Mcps IE,		
				the E-HICH ID		
				TDD IE shall be		
>>E-HICH Type	M		9.2.3.68	ignored.	_	
>>TDD Channelisation	M		9.2.3.19			
Code			5.2.0.10			
>>Time Slot LCR	М		9.2.3.24A		_	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>>Maximum E-HICH	М		DL Power		-	
Power			9.2.1.21			
>>Extended E-HICH ID	0		9.2.3.51b	Applicable to	YES	ignore
TDD				1.28Mcps TDD		
				only, the		
				Extended E- HICH ID TDD		
				IE shall be used		
				if the E-HICH		
				identity has a		
				value larger		
				than 31.		
>>UARFCN	0		9.2.1.65	Corresponds to	YES	ignore
				Nt[15]		
				Mandatory for		
				1.28Mcps TDD		
				when using		
				multiple		
				frequencies.		
Modify E-HICH Resource		01		1.28Mcps TDD	GLOBAL	reject
Pool 1.28Mcps				only		
>E-HICH Information		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
1.28Mcps		ofEHICHs				
		>				

>>E-HICH ID TDD	M		9.2.3.51a	If the Extended E-HICH ID TDD IE is included in the E-HICH Information 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored.	_	
>>E-HICH Type	0		9.2.3.68		_	
>>TDD Channelisation Code	0		9.2.3.19		_	
>>Time Slot LCR	0		9.2.3.24A		_	
>>Midamble Shift LCR	0		9.2.3.7A		_	
>>Maximum E-HICH Power	0		DL Power 9.2.1.21		_	
>>Extended E-HICH ID TDD	0		9.2.3.51b	Applicable to 1.28Mcps TDD only, the <i>Extended E-</i> <i>HICH ID TDD</i> IE shall be used if the E-HICH identity has a value larger than 31.	YES	ignore
>>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.	YES	ignore
Delete from E-HICH Resource Pool 1.28Mcps		0 <maxno ofEHICHs &gt;</maxno 		1.28Mcps TDD only	GLOBAL	reject
>E-HICH ID TDD	M		9.2.3.51a	If the Extended E-HICH ID TDD IE is included in the Delete from E-HICH Resource Pool 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored.	_	
>Extended E-HICH ID TDD	0		9.2.3.51b	Applicable to 1.28Mcps TDD only, the <i>Extended E-</i> <i>HICH ID TDD</i> IE shall be used if the E-HICH identity has a value larger than 31.	YES	ignore

SYNC_UL Partition Information		01		Applicable to 1.28Mcps TDD to indicate the SYNC_UL partition information for the Primary Frequency. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>E-RUCCH SYNC_UL codes bitmap	M		BITSTRING (8)	Each bit indicates availability of a SYNC_UL code, where the SYNC_UL codes are numbered "code 0" to "code 7". The value 1 of a bit indicates that the corresponding SYNC_UL code can be used. The value 0 of a bit indicates that the corresponding SYNC_UL code can not be used.	_	
Maximum Target Received Total Wide Band Power LCR	0		9.2.3.69	1.28Mcps TDD only	YES	reject

- Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.
- Note 2: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.

Note 3: This information element is a simplified representation of the ASN.1. Repetitions 1 to 32 and repetitions 33 to *maxnoofHSSCCHs* are represented by separate ASN.1 structures.

Range Bound	Explanation
maxnoofPDSCHSets	Maximum number of PDSCH Sets in a cell.
maxnoofPDSCHs	Maximum number of PDSCH in a cell.
maxnoofPUSCHSets	Maximum number of PUSCH Sets in a cell.
maxnoofPUSCHs	Maximum number of PUSCH in a cell.
maxnoofDLts	Maximum number of Downlink time slots in a cell for 3.84Mcps TDD.
maxnoofDLtsLCR	Maximum number of Downlink time slots in a cell for 1.28Mcps TDD.
maxnoofULts	Maximum number of Uplink time slots in a cell for 3.84Mcps TDD.
maxnoofULtsLCR	Maximum number of Uplink time slots in a cell for 1.28Mcps TDD
maxnoofHSSCCHs	Maximum number of HS-SCCHs in a Cell
maxnoofHSPDSCHs	Maximum number of HS-PDSCHs in one time slot of a Cell for 1.28Mcps
	TDD and 3.84Mcps TDD
maxnoofHSPDSCHs768	Maximum number of HS-PDSCHs in one time slot of a Cell for
	7.68Mcps TDD
maxnoofEAGCHs	Maximum number of E-AGCHs in a Cell
maxnoofEPUCHslots	Maximum number of E-PUCH time slots in a Cell for 3.84Mcps TDD and
	7.68Mcps TDD
maxnoofEHICHs	Maximum number of E-HICHs in a Cell
maxnoofEPUCHslotsLCR	Maximum number of E-PUCH time slots in a Carrier for 1.28Mcps TDD
maxnoofEPUCHcodes	Maximum number of E-PUCH codes in one time slot for 1.28Mcps TDD
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell

#### 9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore
E-HICH Time Offset	0		9.2.3.59	Applicable to 3.84Mcps and 7.68 Mcps TDD only	YES	reject
E-HICH Time Offset LCR per UARFCN		0 < maxFrequ encyinCell >		1.28Mcps TDD only. See note 1 below	EACH	reject
>E-HICH Time Offset LCR	М		9.2.3.59a		-	
>UARFCN	0		9.2.1.65	Corresponds to Nt [15]. Mandatory for 1.28Mcps TDD when using multiple frequencies.	_	
HS-DSCH Common System Information Response	0		9.2.2.77		YES	ignore
HS-DSCH Paging System Information Response	0		9.2.2.78		YES	ignore

# Note 1 This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.

Range Bound	Explanation
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell

# 9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		_	
>Set Specific				TDD Only		
>>Unsuccessful DL Shared Channel Set		0 <maxno ofPDSCH Sets&gt;</maxno 			EACH	ignore
>>>PDSCH Set ID	М		9.2.3.13		-	
>>>Cause	М		9.2.1.6		-	
>>Unsuccessful UL Shared Channel Set		0 <maxno ofPUSCH Sets&gt;</maxno 			EACH	ignore
>>>PUSCH Set ID	М		9.2.3.13		_	
>>>Cause	М		9.2.1.6		-	
>Extension Cause Level						
>>UARFCN Specific		1		Applicable to 1.28Mcps TDD only when using multiple frequencies	YES	ignore
>>>Unsuccessful UARFCN		0 <maxfreq uencyinCe II&gt;</maxfreq 			EACH	ignore
>>>>UARFCN	M		9.2.1.65	Corresponds to Nt [15] Used to indicate the carrier on which HSDPA or E- DCH related resources configuration failure occurs.	_	
>>>Cause	М		9.2.1.6		_	
>>>>HS-Cause	0		9.2.1.6	Used to indicate the cause of HSDPA configuration Failure	YES	ignore
>>>E-Cause	0		9.2.1.6	Used to indicate the cause of E- DCH related configuration failure.	YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation
maxnoofPDSCHSets	Maximum number of PDSCH Sets in a cell
maxnoofPUSCHSets	Maximum number of PUSCH Sets in a cell
maxFrequencyinCell	Maximum number of Frequencies that can be defined in a Cell

# 9.1.65 RESET REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CHOICE Reset Indicator	М				YES	ignore
>Communication Context						
>>Communication Context Information		1 <maxco mmunicati onContext &gt;</maxco 			EACH	reject
>>>CHOICE Communication Context Type	Μ				_	
>>>CRNC Communication Context						
>>>>CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	_	
>>>Node B Communication Context						
>>>>Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	_	
>Communication Control Port						
>>Communication Control Port Information		1 <maxc CPinNode B&gt;</maxc 			EACH	reject
>>>Communication Control Port ID	М		9.2.1.15		_	
>Node B			NULL			

Range Bound	Explanation
maxCommunicationContext	Maximum number of Communication Contexts that can exist in the Node B
maxCCPinNode B	Maximum number of Communication Control Ports that can exist in the Node B

#### 9.1.66 RESET RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC' shall not be used.	YES	ignore
DL Time Slot ISCP Info	0		9.2.3.4F	Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.4P	Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD.	YES	ignore
Primary CCPCH RSCP	0		9.2.3.11A		YES	ignore
Primary CCPCH RSCP Delta	0		9.2.3.11B		YES	ignore

#### 9.1.68 RADIO LINK PREEMPTION REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18		YES	ignore
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	

Range Bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE

#### 9.1.69 INFORMATION EXCHANGE INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Information Exchange ID	М		9.2.1.36C		YES	reject
CHOICE Information Exchange Object Type	М				YES	reject
>Cell						
>>C-ID	М		9.2.1.9		-	
Information Type	М		9.2.1.36D		YES	reject
Information Report Characteristics	М		9.2.1.36B		YES	reject

# 9.1.70 INFORMATION EXCHANGE INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Information Exchange ID	М		9.2.1.36C		YES	ignore
CHOICE Information Exchange Object Type	0				YES	ignore
>Cell						
>>Requested Data Value	Μ		9.2.1.51A		—	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

#### 9.1.71 INFORMATION EXCHANGE INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Information Exchange ID	М		9.2.1.36C		YES	ignore
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

#### 9.1.72 INFORMATION REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		-	
Information Exchange ID	Μ		9.2.1.36C		YES	ignore
CHOICE Information Exchange Object Type	Μ				YES	ignore
>Cell						
>Requested Data Value Information	Μ		9.2.1.51B		_	

#### 9.1.73 INFORMATION EXCHANGE TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
Information Exchange ID	М		9.2.1.36C		YES	ignore

# 9.1.74 INFORMATION EXCHANGE FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Information Exchange ID	М		9.2.1.36C		YES	ignore
Cause	М		9.2.1.6		YES	ignore

# 9.1.75 CELL SYNCHRONISATION INITIATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	,
C-ID	M		9.2.1.9		YES	reject
Cell Sync Burst Repetition	М		9.2.3.4J		YES	reject
Period						
Time Slot Information		015		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	GLOBAL	reject
>Time Slot	М		9.2.3.23		-	
Cell Sync Burst Transmission Initiation Information		01		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		_	
>SFN	М		9.2.1.53A		_	
>Cell Sync Burst Code	М		9.2.3.4G		-	
>Cell Sync Burst Code Shift	М		9.2.3.4H		-	
>Initial DL Transmission	М		DL Power		-	
Power			9.2.1.21			
Cell Sync Burst Measurement Initiation Information		01		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Measurement ID	М		9.2.3.41	0	-	
>Cell Sync Burst Code	М		9.2.3.4G		_	
>Cell Sync Burst Code Shift	М		9.2.3.4H		_	
>Synchronisation Report Type	М		9.2.3.18E		-	
>SFN	0		9.2.1.53A		-	
>Synchronisation Report Characteristics	М		9.2.3.18D		-	
SYNC_DL Code Transmission Initiation Information LCR		01		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		-	
>SFN	М		9.2.1.53A		-	
>UARFCN	М		9.2.1.65		-	
>SYNC_DL Code ID	М		9.2.3.18B		_	
>DwPCH Power	М		9.2.3.5B		_	
SYNC_DL Code Measurement Initiation Information LCR		01		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Measurement ID	М		9.2.3.41		-	

>SFN	0	9.2.1.53A	-	
>UARFCN	M	9.2.1.65	-	
>SYNC_DL Code ID	M	9.2.3.18B	-	
>Synchronisation Report Type	М	9.2.3.18E	-	
>Synchronisation Report Characteristics	М	9.2.3.18D	-	

# 9.1.76 CELL SYNCHRONISATION INITIATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	Μ		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.77 CELL SYNCHRONISATION INITIATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Cause	М		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.78 CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	reject
Time Slot	М		9.2.3.23	Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it	YES	reject
Number Of Cycles Per SFN Period	М		9.2.3.7B		YES	reject
Number Of Repetitions Per Cycle Period	М		9.2.3.7C		YES	reject
Cell Sync Burst Transmission Reconfiguration Information		0 <maxno ofCellSync Bursts&gt;</maxno 		Applicable to 3.84Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		-	
>Sync Frame Number To Transmit	М		Sync Frame Number 9.2.3.18C		-	
>Cell Sync Burst Code	0		9.2.3.4G		-	
>Cell Sync Burst Code Shift	0		9.2.3.4H		-	
>DL Transmission Power	0		DL Power 9.2.1.21		_	
Cell Sync Burst Measurement Reconfiguration Information		01		Applicable to 3.84Mcps TDD only	YES	reject
>Cell Sync Burst Measurement Information		1 <maxno ofCellSync Bursts&gt;</maxno 			GLOBAL	reject
>>Sync Frame Number To Receive	М		Sync Frame Number 9.2.3.18C		_	
>>Cell Sync Burst Information		1 <maxno ofreceptio nsperSync Frame&gt;</maxno 			_	
>>>CSB Measurement	М		9.2.3.41		_	
>>>Cell Sync Burst Code	М		9.2.3.4G		-	
>>>Cell Sync Burst Code Shift	М		9.2.3.4H		_	
>Synchronisation Report Type	0		9.2.3.18E		YES	reject
>Synchronisation Report Characteristics	0		9.2.3.18D		YES	reject
Number Of Subcycles Per Cycle Period	0		9.2.3.7D	Applicable to 1.28Mcps TDD only	YES	reject

SYNC_DL Code Transmission Reconfiguration Information LCR		0 <maxno ofSyncFra mesLCR&gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>CSB Transmission ID	М		9.2.3.4N		—	
>Sync Frame Number For Transmission	М		Sync Frame Number 9.2.3.18C		_	
>UARFCN	М		9.2.1.65		_	
>SYNC_DL Code ID	0		9.2.3.18B		-	
>DwPCH Power	0		9.2.3.5B		-	
SYNC_DL Code Measurement Reconfiguration Information LCR		01		Applicable to 1.28Mcps TDD only	YES	reject
>SYNC_DL Code Measurement Information LCR		1 <maxno ofSyncDL CodesLCR &gt;</maxno 			-	
>>Sync Frame Number To Receive	М		Sync Frame Number 9.2.3.18C		-	
>>Sync_DLCode Information LCR		1 <maxno ofreceptio nsperSync FrameLCR</maxno 			_	
>>>CSB Measurement	М		9.2.3.41		-	
>>>SYNC_DL Code ID	М		9.2.3.18B		-	
>>>UARFCN	М		9.2.1.65		_	_
>>>Propagation Delay Compensation	0		Timing Adjustment Value LCR 9.2.3.22b		-	
>Synchronisation Report Type	0		9.2.3.18E		YES	reject
>Synchronisation Report Characteristics	0		9.2.3.18D		YES	reject

Range Bound	Explanation
maxnoofCellSyncBursts	Maximum number of cell synchronisation bursts per cycle for 3.84Mcps
	TDD
maxnoofreceptionsperSyncFrame	Maximum number of cell synchronisation burst receptions per Sync
	Frame for 3.84Mcps TDD
maxnoofSyncFramesLCR	Maximum number of Sync Frames per subcycle for 1.28Mcps TDD
maxnoofreceptionsperSyncFrameLCR	Maximum number of SYNC_DL Code ID receptions per Sync Frame for
	1.28Mcps TDD
maxnoofSyncDLCodesLCR	Maximum number of SYNC_DL Codes for 1.28Mcps TDD

# 9.1.79 CELL SYNCHRONISATION RECONFIGURATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.80 CELL SYNCHRONISATION RECONFIGURATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	-
Cause	M		9.2.1.6		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.81 CELL SYNCHRONISATION REPORT [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		-	
Cell Synchronisation Information		1 <maxce IlinNode B&gt;</maxce 			GLOBAL	ignore
>C-ID	Μ		9.2.1.9		YES	ignore
>CHOICE Synchronisation Report Type	0				YES	ignore
>>Initial Phase or Steady- State Phase						
>>>Cell Sync Burst Measured Information		0 <maxno ofCellSync Bursts&gt;</maxno 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	_	
>>>SFN	М		9.2.1.53A		-	
>>>>Cell Sync Burst Information		1 <maxno ofreceptio nsperSync Frame&gt;</maxno 			-	
>>>>CHOICE Cell Sync Burst Availability Indicator >>>>>Cell Sync	М				-	
Burst Available						
>>>>>>Cell Sync Burst Timing	M		9.2.3.4L		_	
>>>>>Cell Sync Burst SIR	М		9.2.3.4K		-	
>>>>Cell Sync Burst Not Available			NULL			

>>>Accumulated Clock Update	0		Timing Adjustment Value 9.2.3.22a		YES	ignore
>>>SYNC_DL Codes Measured Information		0 <maxno ofSyncFra mesLCR&gt;</maxno 		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>>>SFN	М		9.2.1.53A		_	
>>>SYNC_DL Code Information		1 <maxno ofreceptio nsperSync FrameLCR &gt;</maxno 			_	
>>>>CHOICE SYNC_DL Code Availability Indicator	Μ				-	
>>>>SYNC_DL Code Available						
>>>>SYNC_ DL Code ID Timing	М		Cell Sync Burst Timing LCR 9.2.3.4La		-	
>>>>>SYNC_ DL Code ID SIR	Μ		Cell Sync Burst SIR 9.2.3.4K		_	
>>>>SYNC_DL Code Not Available			NULL			
>>Late-Entrant Cell			NULL			
>>Frequency Acquisition			NULL			

Range Bound	Explanation
maxCellinNode B	Maximum number of Cells in a Node B
maxnoofCellSyncBursts	Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD
maxnoofreceptionsperSyncFrame	Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD
maxnoofSyncFramesLCR	Maximum number of SYNC Frames per measurement reporting period for 1.28Mcps TDD
maxnoofreceptionsperSyncFrameLCR	Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD

# 9.1.82 CELL SYNCHRONISATION TERMINATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	ignore
CSB Transmission ID	0		9.2.3.4N		YES	ignore
CSB Measurement ID	0		9.2.3.41		YES	ignore

# 9.1.83 CELL SYNCHRONISATION FAILURE INDICATION [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	ignore
CSB Transmission ID	0		9.2.3.4N		YES	ignore
CSB Measurement ID	0		9.2.3.41		YES	ignore
Cause	М		9.2.1.6		YES	ignore

#### 9.1.84 CELL SYNCHRONISATION ADJUSTMENT REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Cell Adjustment Information		1 <maxce IlinNode B&gt;</maxce 			EACH	ignore
>C-ID	М		9.2.1.9		-	
>Frame Adjustment Value	0		9.2.3.5C		-	
>Timing Adjustment Value	0		9.2.3.22a	Applicable to 3.84Mcps TDD only	_	
>DL Transmission Power	0		9.2.1.21	Applicable to 3.84Mcps TDD only	_	
>SFN	0		9.2.1.53A	•	_	
>DwPCH Power	0		9.2.3.5B	Applicable to 1.28Mcps TDD only	YES	ignore
>Timing Adjustment Value LCR	0		9.2.3.22b	Applicable to 1.28Mcps TDD only	YES	ignore

Range Bound	Explanation		
maxCellinNode B	Maximum number of Cells in a Node B		

## 9.1.85 CELL SYNCHRONISATION ADJUSTMENT RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.86 CELL SYNCHRONISATION ADJUSTMENT FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		-	
CHOICE Cause Level	М				YES	ignore
>General						
>>Cause	М		9.2.1.6		-	
>Cell Specific						
>>Unsuccessful Cell Information Response		1 <maxce IlinNode B&gt;</maxce 			EACH	ignore
>>>C-ID	М		9.2.1.9		_	
>>>Cause	М		9.2.1.6		-	
Criticality Diagnostics	0		9.2.1.17		YES	ignore

Range Bound	Explanation			
maxCellinNode B	Maximum number of Cells in a Node B			

#### 9.1.87 BEARER REARRANGEMENT INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
Signalling Bearer Request Indicator	0		9.2.1.55A		YES	ignore
DCHs To Re-arrange		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	ignore
>DCH ID	Μ		9.2.1.20		—	
DSCHs To Re-arrange		0 <maxno ofDSCHs&gt;</maxno 		TDD only	GLOBAL	ignore
>DSCH ID	М		9.2.3.5a		—	
USCHs To Re-arrange		0 <maxno ofUSCHs&gt;</maxno 		TDD only	GLOBAL	ignore
>USCH ID	М		9.2.3.27		—	
HS-DSCHs MAC-d Flow To Re-arrange		0 <maxno ofMACdFI ows&gt;</maxno 			GLOBAL	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	
E-DCHs MAC-d Flow To Re- arrange		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			GLOBAL	ignore
>E-DCH MAC-d Flow ID	М		9.2.1.29ad		—	

Range bound	Explanation	
maxnoofDCHs	Maximum number of DCHs for a UE	
maxnoofDSCHs	Maximum number of DSCHs for a UE	
maxnoofUSCHs	Maximum number of USCHs for a UE	
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows	
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows	

# 9.1.88 RADIO LINK ACTIVATION COMMAND

# 9.1.88.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Node B Communication Context ID	Μ		9.2.1.48		YES	ignore
Delayed Activation Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>Delayed Activation Update	М		9.2.1.24D		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.88.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		—	
Node B Communication Context ID	М		9.2.1.48		YES	ignore
Delayed Activation Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>Delayed Activation Update	М		9.2.1.24D		_	

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

# 9.1.89 RADIO LINK PARAMETER UPDATE INDICATION

# 9.1.89.1 FDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
HS-DSCH FDD Update Information	0		9.2.2.18Ea		YES	ignore
E-DCH FDD Update Information	0		9.2.2.13DA		YES	ignore

# 9.1.89.2 TDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	Μ		9.2.1.45		—	
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	Μ		9.2.1.62		_	
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.	YES	ignore
HS-DSCH TDD Update Information	0		9.2.3.5GA		YES	ignore

# 9.1.90 MBMS NOTIFICATION UPDATE COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
C-ID	М		9.2.1.9		YES	ignore
Common Physical Channel ID	М		9.2.1.13		YES	ignore
Modification Period	0		9.2.1.47a	This IE shall be present in the very first message	YES	ignore
MICH CFN	М		9.2.1.46a		YES	ignore
NI Information		1 <maxno ofNIs&gt;</maxno 			GLOBAL	ignore
>NI	М		9.2.1.47F		-	

Range Bound	Explanation
maxNoofNIs	Maximum number of NIs

# 9.2 Information Element Functional Definition and Contents

# 9.2.0 General

Subclause 9.2 presents the NBAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in Subclause 9.3. In case there is a contradiction between the tabular format in Subclause 9.2 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

When specifying information elements which are to be represented by bitstrings, if not otherwise specifically stated in the semantics description of the concerned IE or elsewhere, the following principle applies with regards to the ordering of bits:

- The first bit (leftmost bit) contains the most significant bit (MSB);
- The last bit (rightmost bit) contains the least significant bit (LSB);
- When importing bitstrings from other specifications, the first bit of the bitstring contains the first bit of the concerned information;

# 9.2.1 Common parameters

#### 9.2.1.1 Add/Delete Indicator

The add/delete indicator shall notify the CRNC whether the associated resource has been added to or removed from the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Add/Delete Indicator			ENUMERATED (	
			Add,	
			Delete)	

## 9.2.1.1A Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of Node B internal resources. See Annex A.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Level	Μ		INTEGER (015)	This IE indicates the priority of the request. <b>Usage:</b> Value "0" means "Spare"; It shall be treated as a logical error if received. Values between "1" and "14" are ordered in decreasing order of priority, "1" being the highest and "14" the lowest. Value "15" means "No Priority".
Pre-emption Capability	Μ		ENUMERATED ( shall not trigger pre- emption, may trigger pre- emption)	
Pre-emption Vulnerability	М		ENUMERATED ( not pre-emtable, pre-emptable)	

# 9.2.1.1B Alternative Format Reporting Indicator

This IE indicates if Node B may report a measurement using an alternative format.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Alternative Format Reporting Indicator			ENUMERATED (Alternative format is allowed,)	

#### 9.2.1.2 Availability Status

The availability status is used to indicate more detailed information of the availability of the resource. In accordance with ref. [3], following values are defined. If the value of this IE is "empty", this implies that none of the status conditions described in ref. [3] are present.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Availability Status			ENUMERATED ( empty, in test, failed, power off, off line, off duty, dependency, degraded, not installed, log full, )	

# 9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
BCCH Modification Time			INTEGER (0511)	All SFN values in which MIB may be mapped are allowed. The tabular description is presented in [18].

## 9.2.1.4 Binding ID

The Binding ID is the identifier of a user data stream.

In case of transport bearer establishment with ALCAP [2][31], this IE contains the identifier that is allocated at the Node B and that is unique for each transport bearer under establishment to/from the Node B.

If the Transport Layer Address contains an IP address [29], this IE contains the UDP port [30] intended to be used for the user plane transport.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Binding ID			OCTET STRING (14,)	If the Binding ID includes an UDP port, the UDP port is included in octets 1 and 2. The first octet of the UDP port field shall be included in the first octet of the Binding ID.

#### 9.2.1.4A BLER

Void.

#### 9.2.1.5 Blocking Priority Indicator

The Blocking priority indicator shall indicate the immediacy with which a resource should be blocked from use. The following priority classes shall be supported in the Blocking priority indicator.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Blocking Priority Indicator			ENUMERATED ( High, Normal, Low, …)	"High" priority: Block resource immediately. "Normal" priority: Block resource when idle or upon timer expiry. "Low" priority: Block resource when idle.

#### 9.2.1.5A Burst Mode Parameters

The Burst Mode Parameters IE provides information to be applied for IPDL burst mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Burst Start	Μ		INTEGER (015)	See [10] and [21]
Burst Length	Μ		INTEGER (1025)	See [10] and [21]
Burst Freq	М		INTEGER (116)	See [10] and [21]

## 9.2.1.5B Broadcast Common Transport Bearer Indication

The *Broadcast Common Transport Bearer Indication* IE is used by the Node B to inform the CRNC that the transport bearer of the existing Common Transport Channel which is indicated by the *Common Transport Channel ID* IE and *C-ID* IE, shall be used instead of establishing a new transport bearer. If there are more than one Common Transport Channels sharing the same transport bearer, Node B may include any one of these Common Transport Channels together with its corresponding C-ID in *Broadcast Common Transport Bearer Indication* IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel	М		9.2.1.14	
C-ID	М		9.2.1.9	

#### 9.2.1.5C Broadcast Reference

The *Broadcast Reference* IE is a unique identifier within the CRNC identifying the intended usage of a requested Common Transport Channel (e.g. the *Broadcast Reference* IE may identify a particular MBMS session).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Broadcast Reference			BIT STRING (SIZE(24))	

# 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cause Group	Μ			
>Radio Network Layer				
>>Radio Network Layer	М		ENUMERATED (	
Cause			unknown C-ID,	
			Cell not available, Power level not supported,	
			DL radio resources not	
			available,	
			UL radio resources not	
			available,	
			RL Already	
			Activated/allocated,	
			Node B Resources	
			Unavailable,	
			Measurement not supported	
			for the object, Combining Resources not	
			available,	
			Requested configuration not	
			supported,	
			Synchronization failure,	
			Priority transport channel	
			established,	
			SIB Origination in Node B not	
			Supported,	
			Requested Tx Diversity Mode not supported,	
			Unspecified,	
			BCCH scheduling error,	
			Measurement Temporarily not	
			Available,	
			Invalid CM Setting,	
			Reconfiguration CFN not	
			elapsed, Number of DL codes not	
			supported,	
			S-CPICH not supported,	
			Combining not supported,	
			UL SF not supported,	
			DL SF not supported,	
			Common Transport Channel	
			Type not supported,	
			Dedicated Transport Channel Type not supported,	
			Downlink Shared Channel	
			Type not supported,	
			Uplink Shared Channel Type	
			not supported,	
			CM not supported,	
			Tx diversity no longer	
			supported, Unknown Local Cell ID,	
			Number of UL codes not	
			supported,	
			Information temporarily not	
			available,	
			Information Provision not supported for the object,	
			Cell Synchronisation not	
			supported,	
			Cell Synchronisation	
			Adjustment not supported,	
			DPC Mode Change not	
			Supported,	

		IPDL already activated, IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported, Power Balancing status not compatible, Requested type of Bearer Re- arrangement not supported, Signalling Bearer Re- arrangement not supported, Bearer Re-arrangement needed, Delayed Activation not Supported, RL Timing Adjustment not supported, MICH not supported, F-DPCH Not Supported, Modification Period not available, PLCCH not supported, Continuous Packet Connectivity DTX-DRX operation not available, Continuous Packet Connectivity UE DTX Cycle not available, MIMO not available, S-CPICH power offset support not available, TX diversity for MIMO UE on DL Control Channels not
>Transport Layer >>Transport Layer	M	available) ENUMERATED (
>>Transport Layer Cause		ENUMERATED ( Transport resource unavailable, Unspecified, )
>Protocol		
>>Protocol Cause	M	ENUMERATED ( Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), )
>Misc		
>>Miscellaneous Cause	Μ	ENUMERATED ( Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified, )

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerned capability is missing. On the other hand, "not available" cause values indicate that the concerned capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3).
Bearer Re-arrangement needed	The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement.
Cell not Available	The concerned cell or local cell is not available.
Cell Synchronisation not supported	The concerned cell(s) do not support Cell Synchronisation.
Combining not supported	The Node B does not support RL combining for the concerned cells.
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must",
	but the Node B cannot perform the requested combining.
CM not supported	The concerned cell(s) do not support Compressed Mode.
Common Transport Channel Type not	The concerned cell(s) do not support the RACH and/or FACH Common
supported	Transport Channel Type.
Continuous Packet Connectivity	CPC resources for DTX-DRX operation not available in the concerned
DTX-DRX operation not available	cell(s).
Continuous Packet Connectivity UE DTX Cycle not available	CPC resources for the UE DTX Cycle not available in the concerned cell(s).
Dedicated Transport Channel Type not	The concerned cell(s) do not support the Dedicated Transport Channel
supported Delayed Activation not Supported	Type. The concerned cell(c) do not support delayed activation of PLs
DL Radio Resources not Available	The concerned cell(s) do not support delayed activation of RLs. The Node B does not have sufficient DL radio resources available.
DL SF not supported	The concerned cell(s) do not support the requested DL SF.
DL Shared Channel Type not	The concerned cell(s) do not support the Downlink Shared Channel
supported	Type.
DPC Mode Change not Supported	The concerned cells do not support DPC mode changes.
Frequency Acquisition not supported	The concerned cell(s) do not support Frequency Acquisition.
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH
Information Provision not supported for the object	The requested information provision is not supported for the concerned object types.
Information temporarily not available	The requested information can temporarily not be provided.
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid.
IPDL already activated	The concerned cell(s) have already active IPDL ongoing.
IPDL not supported	The concerned cell(s) do not support the IPDL.
IPDL parameters not available	The concerned cell(s) do not have IPDL parameters defining IPDL to be applied.
Measurement not Supported For The	At least one of the concerned cell(s) does not support the requested
Object	measurement on the concerned object type.
Measurement Temporarily not Available	The Node B can temporarily not provide the requested measurement value.
MICH not supported	The concerned cell does not support MICH.
MIMO not available	MIMO resources not available in the concerned cell(s).
Modificaton Period not available	The Node B does not have modification period available.
Node B resources unavailable	The Node B does not have sufficient resources available.
Number of DL codes not supported	The concerned cell(s) do not support the requested number of DL codes.
Number of UL codes not supported	The concerned cell(s) do not support the requested number of UL codes.
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support.
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the Node B.
PLCCH not supported	The concerned cell does not support PLCCH.
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport
	channel with a high priority is present.
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing.
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a RADIO LINK
	RECONFIGURATION COMMIT message was received previously,
	but the concerned CFN has not yet elapsed.
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters.
Requested Type of Bearer Re-	The Node B does not support the requested type of bearer re-

arrangement not supported	arrangement.
Requested Tx Diversity mode not	The concerned cell(s) do not support the requested transmit diversity
supported	mode.
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for
	this UE context.
S-CPICH not supported	The concerned cell(s) do not support S-CPICH.
S-CPICH power offset support not	The support for setting up the desired power offset on S-CPICH with
available	respect to P-CPICH is not available
SIB Orgination in Node B not	The Node B does not support the origination of the requested SIB for
Supported	the concerned cell.
Signalling Bearer Re-arrangement not	The Node B does not support the Signalling bearer re-arrangement.
supported	
Synchronisation Failure	Loss of UL Uu synchronisation.
Cell Synchronisation Adjustment not	The concerned cell(s) do not support Cell Synchronisation Adjustment.
supported	
TX diversity for MIMO UE on DL	The Node B does not have sufficient radio resources available to support
Control Channels not available	transmit diversity on downlink control channels when the UE is
	configured in MIMO mode with P-CPICH & S-CPICH as phase
	references [7]
Tx diversity no longer supported	Tx diversity can no longer be supported in the concerned cell.
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available.
UL SF not supported	The concerned cell(s) do not support the requested minimum UL SF.
UL Shared Channel Type not	The concerned cell(s) do not support the Uplink Shared Channel Type.
supported	
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID.
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is
	Radio Network layer related.

Transport Network Layer cause	Meaning
Transport resource unavailable	The required transport resources are not available.
Unspecified	Sent when none of the above cause values applies but still the cause is
	Transport Network layer related.

Protocol cause	Meaning
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the
	concerned criticality indicated "reject" (see subclause 10.3).
Abstract Syntax Error (Ignore and	The received message included an abstract syntax error and the
Notify)	concerned criticality indicated "ignore and notify" (see subclause 10.3).
Abstract syntax error (falsely	The received message contained IEs in wrong order or with too many
constructed message)	occurrences (see subclause 10.3).
Message not Compatible with	The received message was not compatible with the receiver state (see
Receiver State	subclause 10.4).
Semantic Error	The received message included a semantic error (see subclause 10.4).
Transfer Syntax Error	The received message included a transfer syntax error (see subclause
-	10.2).
Unspecified	Sent when none of the above cause values applies but still the cause is
_	protocol related.

Miscellaneous cause	Meaning
Control Processing Overload	Node B control processing overload.
Hardware Failure	Node B hardware failure.
Not enough User Plane Processing	Node B has insufficient user plane processing resources available.
Resources	
O&M Intervention	Operation and Maintenance intervention related to Node B equipment.
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

#### 9.2.1.7 CFN

Connection Frame Number for the radio connection, see ref. [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CFN			INTEGER (0255)	

#### 9.2.1.8 CFN Offset

Void.

#### 9.2.1.9 C-ID

The C-ID (Cell identifier) is the identifier of a cell in one RNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-ID			INTEGER (065535)	

#### 9.2.1.9A Common Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor. [FDD - For the PRACH, the reference spreading factor shall be the minimum possible spreading factor amongst the ones defined by the *RACH Slot Format* IE(s) in the Common Transport Channel Setup or Reconfiguration procedures.]

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Common Transport Channel Setup
- Common Transport Channel Deletion
- [FDD Common Transport Channel Reconfiguration]

For the Common Transport Channel Setup procedure, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Common Transport Channel Deletion one.

[FDD - For the Common Transport Channel Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited if this difference is negative).]

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

[FDD - When the Common Transport Channel Setup, Deletion or Reconfiguration procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH and AICH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by a physical channel, the cost credited to or debited from the Capacity Credit for this physical channel shall be taken as N times the cost given in the consumption law, where N is the number of channelization codes.]

[TDD - When the Common Transport Channel Setup or Deletion procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofSFs&gt;</maxno 		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL cost	М		INTEGER (065535)	
>UL cost	М		INTEGER (065535)	

Range Bound	Explanation		
maxnoofSFs	Maximum number of Spreading Factors		

#### 9.2.1.9B Common Measurement Accuracy

The Common Measurement Accuracy IE indicates the accuracy of the common measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Common Measurement Accuracy	Μ			
>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class	М		T <sub>UTRAN-GPS</sub> Accuracy Class 9.2.1.64C	
>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class	Μ		T <sub>UTRAN-GANSS</sub> Accuracy Class 9.2.1.98	

# 9.2.1.10 Common Measurement Object Type

Void.

# 9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
Common Measurement Type			ReferenceENUMERATED ( Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, NotUsed-1, NotUsed-2, , UTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, Transmitted carrier power of all codes not used for HS transmission, HS- DSCH Required Power, HS-DSCH Provided Bit Rate, Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS transmission, HS- DSCH Required Power, HS-DSCH Provided Bit Rate, Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS- PDSCH HS-SCCH E-AGCH E-RGCH or E-HICH transmission for Cell Portion, UpPCH Interference, DL Transmission Branch Load, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate, E-DCH Non-serving Relative Grant Down Commands, Received Scheduled E-DCH Power Share, Received Scheduled E-DCH Power Share for Cell Portion, UTRAN GANSS Timing of Cell Frames for UE Positioning)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", 'DL Transmission Branch Load' are used by FDD only, 'UpPCH interference' is used by 1.28Mcps TDD only. This IE shall never be set to the values that are prefixed "NotUsed-". [TDD - The IE Type "Transmitted carrier power of all codes not used for HS transmission" corresponds to the measurement "Transmitted carrier power of all codes not used for HS-PDSCH [TDD - E- AGCH, E-HICH] or HS-SCCH transmission" in [5] and [23].] [FDD - The IE Type "Transmitted carrier power of all codes not used for HS transmission" corresponds to the measurement "Transmitted carrier power of all codes not used for HS-PDSCH HS- SCCH E-AGCH E-RGCH or E- HICH transmission" in [4] and [22].]

## 9.2.1.12 Common Measurement Value

The Common Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Common Measurement Value	М				-	<b>,</b>
>Transmitted Carrier Power						
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
Value >Received Total						
Wide Band Power >>Received Total Wide Band Power Value	M		INTEGER (0621)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD Only		
>>Acknowledged PRACH Preamble Value	M		INTEGER (0240,)	According to mapping in [22]	-	
>UL Timeslot ISCP				TDD Only		
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	_	
>Not used 1			NULL	This choice shall not be used. Ignore if received.		
>Not Used 2			NULL	This choice shall not be used. Ignore if received.		
>Additional Common Measurement Values				See Note 1		
>>UTRAN GPS Timing Of Cell Frames for UE Positioning						
>>>T <sub>UTRAN-GPS</sub> Measurement Value Information	M		9.2.1.64A		YES	ignore
>>SFN-SFN Observed Time Difference						
>>>SFN-SFN Measurement Value Information	М		9.2.1.53E		YES	ignore
>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission						
>>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission Value	Μ		INTEGER (0100)	According to mapping in [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission" and mapping in [23], measurement "Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH Or HS- PDSCH Or HS-	YES	ignore
>>HS-DSCH				Transmission"		
Required Power						
>>>HS-DSCH Required Power	М		9.2.1.31lc		YES	ignore

Value Information						
>>HS-DSCH						
Provided Bit Rate						
>>>HS-DSCH Provided Bit Rate	М		9.2.1.31lb		YES	ignore
Value Information						
>>Transmitted				FDD Only		
Carrier Power For				, ,		
Cell Portion						
>>>Transmitted		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Carrier Power For Cell Portion		NrOfCel IPortion				
Value		s>				
>>>Cell	М	07	9.2.2.1Ca		_	
Portion ID						
>>>>Transmitte	М		INTEGER	According to mapping	-	
d Carrier Power			(0100)	in [22]		
Value						
>>Received Total Wide Band Power				FDD Only		
For Cell Portion						
>>>Received		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Total Wide Band		NrOfCel			0101/11	ignere
Power For Cell		IPortion				
Portion Value		S>				
>>>Cell Portion ID	М		9.2.2.1Ca		-	
>>>Received	М		INTEGER	According to mapping	_	
Total Wide			(0621)	in [22]		
Band Power						
Value						
>>Transmitted				FDD Only		
Carrier Power Of All Codes Not Used						
For HS-PDSCH,						
HS-SCCH, E-						
AGCH, E-RGCH or						
E-HICH						
Transmission For						
Cell Portion					01.05.41	
>>>Transmitted Carrier Power Of		1 <max NrOfCel</max 			GLOBAL	ignore
All Codes Not		IPortion				
Used For HS-		s>				
PDSCH, HS-		01				
SCCH, E-AGCH,						
E-RGCH or E-						
HICH						
Transmission For Cell Portion						
Value						
>>>Cell	М		9.2.2.1Ca		_	
Portion ID						
>>>>Transmitte d Carrier Power	М		INTEGER (0100)	According to mapping in [22]	-	
Of All Codes			(0100)	111 [22]		
Not Used For						
HS-PDSCH,						
HS-SCCH, E-						
AGCH, E-						
RGCH or E-						
HICH Transmission						
Transmission						
Value				1 28Mcns TDD Only		
Value >>UpPCH				1.28Mcps TDD Only		
Value	M		INTEGER	1.28Mcps TDD Only According to mapping	YES	ignore

	1	n	1			
>>DL Transmission				FDD Only		
Branch Load						
>>>Node B DL	М		INTEGER	According to mapping	YES	ignore
Transmission			(0101,)	in [22]		
Branch Load						
Values						
>>HS-DSCH				FDD Only		
Required Power						
For Cell Portion						
>>>HS-DSCH		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Required Power		NrOfCel				0
For Cell Portion		IPortion				
Information		s>				
>>>Cell	М		9.2.2.1Ca		_	
Portion ID			0.2.2.100			
>>>HS-DSCH	М		9.2.1.31lc			
			9.2.1.3110		_	
Required Power						
Value						
Information						
>>HS-DSCH				FDD Only		
Provided Bit Rate						
For Cell Portion		1				
>>>HS-DSCH		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Provided Bit		NrOfCel				
Rate For Cell		IPortion				
Portion		S>				
Information						
>>>>Cell	М		9.2.2.1Ca		_	
Portion ID						
>>>HS-DSCH	М		9.2.1.31lb		_	
Provided Bit			0.2.1.0110			
Rate Value						
Information						
>>E-DCH Provided						
Bit Rate						
>>>E-DCH	М		9.2.1.78		YES	ignore
Provided Bit Rate						
Value Information						
>>E-DCH Non-				FDD Only		
serving Relative						
Grant Down						
Commands						
>>>E-DCH Non-	М		INTEGER	Down Commands per	YES	ignore
serving Relative			(0100,)	second	_	5
Grant Down			(******,***)			
Commands Value						
Information						
>>Received		1		FDD Only		
Scheduled E-DCH				According to definition		
Power Share		1		in [4]		:
>>>Received		1			YES	ignore
Scheduled E-						
DCH Power						
Share						
>>>RSEPS	М		INTEGER	According to mapping	-	
Value		1	(0151)	in [22]		
>>>>RTWP*	0		INTEGER	According to mapping	_	
Value			(0621)	of RTWP in [22]		
>>Received				FDD only		
Scheduled E-DCH				According to definition		
Power Share for				in [4]		
Cell Portion						
>>>Received		1 <max< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></max<>			GLOBAL	ignore
Scheduled E-		NrOfCel			GLUBAL	gnore
DCH Power		IPortion				
DOD POwer		ιροπιοη	1			
		0.5				
Share For Cell Portion Value		S>				

>>>Cell Portion ID	M	9.2.2.1Ca		_	
>>>>RSEPS for Cell Portion Value	М	INTEGER (0151)	According to mapping in [22].	-	
>>>>RTWP* for Cell Portion Value	0	INTEGER (0621)	According to mapping of RTWP in [22]	-	
>>UTRAN GANSS Timing Of Cell Frames for UE Positioning					
>>>T <sub>UTRAN-GANSS</sub> Measurement Value Information	M	9.2.1.100		YES	ignore

# Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

Range Bound	Explanation
MaxNrOfCellPortions	Maximum number of Cell Portions in a cell

#### 9.2.1.12A Common Measurement Value Information

The *Common Measurement Value Information* IE provides information both on whether the Common Measurement Value is provided in the message or not and if provided also the Common Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability Indicator	М			
>Measurement Available				
>>Common Measurement Value	М		9.2.1.12	
>Measurement Not Available			NULL	

## 9.2.1.13 Common Physical Channel ID

Common Physical Channel ID is the unique identifier for one common physical channel within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID			INTEGER (0255)	

#### 9.2.1.13A Common Physical Channel Status Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID	М		9.2.1.13	
Resource Operational State	М		9.2.1.52	
Availability Status	М		9.2.1.2	

## 9.2.1.14 Common Transport Channel ID

Common Transport Channel ID is the unique identifier for one common transport channel within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID			INTEGER (0255)	

## 9.2.1.14A Common Transport Channel Information Response

The *Common Transport Channel Information Response* IE provides information for Common Transport Channels that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Common Transport Channel	М		9.2.1.14		-	
Binding ID	0		9.2.1.4		-	
Transport Layer Address	0		9.2.1.63		-	
Broadcast Common Transport Bearer Indication	0		9.2.1.5B		YES	ignore
IP Multicast Data Bearer Indication	0		9.2.1.109		YES	ignore

## 9.2.1.14B Common Transport Channel Status Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport Channel ID	М		9.2.1.14	
Resource Operational State	Μ		9.2.1.52	
Availability Status	М		9.2.1.2	

# 9.2.1.15 Communication Control Port ID

A Communication Control Port corresponds to one signalling bearer between the CRNC and the Node B for the control of Node B Communication Contexts. The Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port ID is the identifier of the Communication Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Communication Control Port ID			INTEGER (065535)	

## 9.2.1.16 Configuration Generation ID

The Configuration Generation ID describes the generation of the configuration of logical resources in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Configuration Generation ID			INTEGER (0255)	Value "0" means "No configuration". At possible wraparound of the ID counter in CRNC the value "0" shall not be used.

## 9.2.1.17 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.

For further details on how to use the Criticality Diagnostics IE, see Annex C.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Procedure ID		01		Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error	_	
>Procedure Code	М		INTEGER (0255)		-	
>Ddmode	M		ENUMERATED ( TDD, FDD, Common, )	"Common" = common to FDD and TDD.	_	
Triggering Message	0		ENUMERATED ( initiating message, successful outcome, unsuccessful outcome, outcome, outcome)	The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.	_	
Procedure Criticality	0		ENUMERATED ( reject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure).	_	
Transaction ID	0		9.2.1.62		_	
Information Element Criticality Diagnostics		0 <max nooferro rs&gt;</max 			-	
>IE Criticality	M		ENUMERATED ( reject, ignore, notify)	The IE Criticality is used for reporting the criticality of the triggering IE. The value "ignore" shall never be used.	_	
>IE ID	M		INTEGER (065535)	The IE ID of the not understood or missing IE	-	
>Repetition Number	0		INTEGER (0255)	The Repetition Number IE gives: for a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence for a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them.	_	

>Message Structure	0	9.2.1.45A	The Message Structure IE describes the structure where the not understood or missing IE was detected. This IE is included if the not understood IE is not the top level of the message.	YES	ignore
>Type Of Error	М	ENUMERATED ( not understood, missing, )		YES	ignore

Range Bound	Explanation
maxnooferrors	Maximum number of IE errors allowed to be reported with a single
	message.

#### 9.2.1.18 CRNC Communication Context ID

The CRNC Communication Context ID is the identifier of the Communication Context in the CRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CRNC Communication Context ID			INTEGER (02^20 – 1)	"2^20-1" is a reserved value indicating all the CRNC Communication Contexts that can be reached by the Communication Control Port (All CRNCCC).

# 9.2.1.18A CTFC

The CTFC is an integer number calculated in accordance with [18], subclause 14.10. Regarding the channel ordering, for all transport channels, "TrCH1" corresponds to the transport channel having the lowest transport channel identity among all configured transport channels on this CCTrCH. "TrCH2" corresponds to the transport channel having the next lowest transport channel identity, and so on.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE CTFC Format	М			
>2 bits long				
>>CTFC value	М		INTEGER (03)	
>4 bits long				
>>CTFC value	М		INTEGER (015)	
>6 bits long				
>>CTFC value	М		INTEGER (063)	
>8 bits long				
>>CTFC value	М		INTEGER (0255)	
>12 bits long				
>>CTFC value	М		INTEGER (04095)	
>16 bits long				
>>CTFC value	М		INTEGER (065535)	
>max nb bits long				
>>CTFC value	М		INTEGER (0maxCTFC)	

Range Bound	Explanation
MaxCTFC	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^{I} (L_i - 1)P_i$ with the notation according to ref. [18]

#### 9.2.1.19 DCH Combination Indicator

Void.

#### 9.2.1.20 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH ID			INTEGER (0255)	

#### 9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the [FDD - allocated Spreading Factor and the RL/RLS situation] [TDD - allocated Spreading Factor on each DPCH and the assigned timeslot]. [FDD - In Uplink, the reference spreading factor shall be the minimum spreading factor signalled in the Radio Link Setup Request message. This is signalled using the *Min UL Channelisation Code Length* [E.]

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion
- [TDD Physical Shared Channel Reconfiguration]

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

[FDD - For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by either the radio links, the cost credited to or debited from the Capacity Credit shall be taken as N times the cost for one code, where N is the number of channelization codes.]

[TDD - The cost for a radio link is a sum of the costs for each DPCH. For the first DPCH assigned to any user in a cell within a timeslot, the initial cost for a DPCH in a timeslot (cost 1) and the cost for a DPCH (cost 2) shall be taken into account. For any DPCH that is not the first DPCH assigned for any user in a cell within a timeslot, only the cost for a DPCH (cost 2) shall be taken into account.]

[TDD - The cost for shared channels is the sum of the costs for each PDSCH and PUSCH assigned to a PUSCH or PDSCH set. For the first PDSCH or PUSCH assigned to any user in a cell within a timeslot, the initial cost for a PDSCH/PUSCH in a timeslot (cost 1) and the cost for a PDSCH/PUSCH (cost 2) shall be taken into account. For any PDSCH/PUSCH that is not the first PDSCH/PUSCH assigned to any user in a cell within a timeslot, only the cost for a PDSCH/PUSCH (cost 2) shall be taken into account.]

[TDD - In the case of Physical Shared Channel Reconfiguration, the sum of the consumption cost of the each PDSCH/PUSCH of the previous configuration shall be credited to the capacity credit, and the sum of the consumption cost of each PDSCH/PUSCH of the new configuration shall be subtracted from the capacity credit.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofSFs&gt;</maxno 		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL Cost 1	Μ		INTEGER (065535)	[FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>DL Cost 2	М		INTEGER (065535)	[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH]
>UL Cost 1	М		INTEGER (065535)	[FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]
>UL Cost 2	М		INTEGER (065535)	[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH.]

Range Bound	Explanation
maxnoofSFs	Maximum number of Spreading Factors

## 9.2.1.20B DL Or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a Local Cell or a Local Cell Group.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Or Global Capacity Credit			INTEGER (065535)	

#### 9.2.1.20C DCH Information Response

The DCH Information Response IE provides information for DCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH Information Response		1 <maxnoo fDCHs&gt;</maxnoo 		Only one DCH per set of coordinated DCHs shall be included	_	
>DCH ID	М		9.2.1.20		-	
>Binding ID	0		9.2.1.4		-	
>Transport Layer Address	0		9.2.1.63		-	
>Transport Bearer Not Setup Indicator	0		9.2.2.4H	FDD only	YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCH per UE

## 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.]

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350150)	Value = DL Power /10 Unit: dB Range: -35.0 +15.0 dB Step: 0.1dB

#### 9.2.1.22 Dedicated Measurement Object Type

Void.

#### 9.2.1.23 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED ( SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time, , Rx Timing Deviation LCR, Angle Of Arrival LCR, HS-SICH reception quality, Best Cell Portions, Rx Timing Deviation 7.68Mcps, Rx Timing Deviation 3.84 Mcps Extended)	"RSCP" and "HS-SICH reception quality" are used by TDD only. "Rx Timing Deviation" and "Rx Timing Deviation 3.84 Mcps Extended" are used by 3.84Mcps TDD only. "Rx Timing Deviation LCR", "Angle Of Arrival LCR" are used by 1.28Mcps TDD only. "Round Trip Time", "SIR Error" are used by FDD only. 'Best Cell Portions' is used by FDD only. "Rx Timing Deviation 7.68Mcps" is used by 7.68Mcps TDD only.

Note: For definitions of the measurement types refer to [4] and [5].

#### 9.2.1.24 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Dedicated Measurement Value	М			· · · ·	_	
>SIR Value						
>>SIR Value	М		INTEGER (063)	According to mapping in [22] and [23]	_	
>SIR Error Value			(000)	FDD only		
>>SIR Error Value	М		INTEGER (0125)	According to mapping in [22]	_	
>Transmitted Code Power Value			(0120)			
>>Transmitted Code Power Value	М		INTEGER (0127)	According to mapping in [22] and [23]. Values 0 to 9 and 123 to 127 shall not be used.	_	
>RSCP				TDD only		
>>RSCP	М		INTEGER (0127)	According to mapping in [23]	_	
>Rx Timing Deviation Value				Applicable to 3.84Mcps TDD only		
>>Rx Timing Deviation	М		INTEGER (08191)	According to mapping in [23]	_	
>Round Trip Time			1```	FDD only		
>>Round Trip Time	М		INTEGER (032767)	According to mapping in [22]	_	
>Additional Dedicated				See Note 1.		
Measurement Values						
>>Rx Timing Deviation Value LCR				Applicable to 1.28Mcps TDD only		
>>>Rx Timing Deviation LCR	М		INTEGER (0511)	According to mapping in [23]	YES	reject
>>Angle Of Arrival Value LCR				Applicable to 1.28Mcps TDD only		
>>>AOA Value LCR		1			YES	reject
>>>AOA LCR	М		INTEGER (0719)	According to mapping in [23]	_	
>>>>AOA LCR Accuracy Class	M		ENUMERATE D ( A, B, C, D, E, F, G, H,)	According to mapping in [23]	_	
>>HS-SICH Reception Quality				Applicable to TDD only		
>>>HS-SICH Reception Quality Value		1			YES	reject
>>>Failed HS- SICH	М		INTEGER (020)	According to mapping in [23]	-	
>>>Missed HS-SICH	М		INTEGER (020)	According to mapping in [23]	-	
>>>>Total HS- SICH	М		INTEGER (020)	According to mapping in [23]	-	
>>>Failed HS- SICH LCR extension	0		INTEGER (020)	According to mapping in [23] Mandatory for LCR TDD when there are more than 20 failed HS-SICH	YES	reject
>>>>Missed HS-SICH LCR extension	0		INTEGER (020)	According to mapping in [23] Mandatory for LCR TDD when there are more than 20 missed	YES	reject

			HS-SICH		
>>>>Total HS- SICH LCR extension	0	INTEGER (020)	According to mapping in [23] Mandatory for LCR TDD when there are more than 20 total HS-SICH	YES	reject
>>Best Cell Portions			FDD only		
>>>Best Cell Portions	М	9.2.2.1Ba		YES	reject
>>Rx Timing Deviation Value 7.68Mcps			Applicable to 7.68Mcps TDD only		
>>>Rx Timing Deviation 7.68Mcps	М	INTEGER (065535)	According to mapping in [23]	YES	reject
>>Rx Timing Deviation Value 3.84Mcps Extended			Applicable to 3.84Mcps TDD only		
>>>Rx Timing Deviation 3.84Mcps Extended	М	INTEGER (032767)	According to mapping in [23]	YES	reject
>>Extended Round Trip Time			FDD only		
>>>Extended Round Trip Time Value	М	INTEGER (3276710304 1)	Continuation of intervals with step size as defined in [22].	YES	reject

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

#### 9.2.1.24A Dedicated Measurement Value Information

The *Dedicated Measurement Value Information* IE provides information both on whether or not the Dedicated Measurement Value is provided in the message or not and if provided also the Dedicated Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability Indicator	М			
>Measurement Available				
>>Dedicated Measurement Value	М		9.2.1.24	
>>CFN	0		9.2.1.7	Dedicated Measurement Time Reference
>Measurement Not Available			NULL	

# 9.2.1.24B DGPS Corrections

The DGPS Corrections IE contains DGPS information used by the UE Positioning A-GPS method. For further details on the meaning of parameters, see [28].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GPS TOW	М		INTEGER (0604799)	Time in seconds. This field indicates the baseline time for which the corrections are valid.
Status/Health	M		ENUMERATED ( UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data)	This field indicates the status of the differential corrections.
Satellite Information		1 <maxno Sat&gt;</maxno 		
>SatID	М		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].
>IODE	M		BIT STRING (8)	This IE is the sequence number for the ephemeris for the particular satellite. It can be used to determine if new ephemeris is used for calculating the corrections that are provided. This eight-bit IE is incremented for each new set of ephemeris for the satellite and may occupy the numerical range of [0, 239] during normal operations.
>UDRE	Μ		ENUMERATED ( UDRE ≤1.0m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE)	User Differential Range Error. This field provides an estimate of the uncertainty $(1-\sigma)$ in the corrections for the particular satellite. The value in this field shall be multiplied by the UDRE Scale Factor in the common Corrections Status/Health field to determine the final UDRE estimate for the particular satellite
>PRC	М		INTEGER (-20472047)	Pseudo Range Correction Unit: m (meters) Step: 0.32 meters
>Range Correction Rate	М		INTEGER (-127127)	Unit: m/s Step: 0.032 m/s

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be provided

# 9.2.1.24C Delayed Activation

The *Delayed Activation* IE indicates that the activation of the DL power shall be delayed until an indicated CFN or until a separate activation indication is received.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Delayed Activation	Μ			
>CFN				
>>Activation CFN	М		CFN 9.2.1.7	
>Separate Indication			NULL	

# 9.2.1.24D Delayed Activation Update

The Delayed Activation Update IE indicates a change of the activation of the DL power for a specific RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned criticality
CHOICE Delayed	Μ				-	
Activation Update						
>Activate						
>>CHOICE Activation	М				_	
Туре						
>>>Synchronised						
>>>>Activation CFN	М		CFN 9.2.1.7		_	
>>>Unsynchronised			NULL			
>>Initial DL TX Power	М		DL Power		_	
			9.2.1.21			
>>First RLS Indicator	0		9.2.2.16A	FDD Only	_	
>>Propagation Delay	0		9.2.2.35	FDD Only	_	
>>Extended	0		9.2.2.35A	FDD Only	YES	reject
Propagation Delay				,		
>Deactivate						
>>CHOICE	М				_	
Deactivation Type						
>>>Synchronised						
>>>>Deactivation	М		CFN 9.2.1.7		_	
CFN						
>>>Unsynchronised			NULL			

## 9.2.1.24E Discard Timer

The *Discard Timer* IE defines the time to live for a MAC-hs SDU starting from the instant of its arrival into an HSDPA Priority Queue. The Node B shall use this information to discard out-of-data MAC-hs SDUs from the HSDPA Priority Queues.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Discard Timer			ENUMERATED (20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 300, 400, 500, 750, 1000, 1250, 1500, 1750, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 7500,)	Unit: ms

## 9.2.1.25 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Control Field			ENUMERATED( May, Must, Must Not, …)	

## 9.2.1.26 Diversity Indication

Void.

#### 9.2.1.26A DL DPCH Timing Adjustment

Void.

9.2.1.27 DSCH ID

Void.

9.2.1.27A DSCH Information Response

Void

9.2.1.28 DSCH Transport Format Set

Void.

9.2.1.29 DSCH Transport Format Combination Set

Void.

## 9.2.1.29A End Of Audit Sequence Indicator

Indicates if the AUDIT RESPONSE message ends an audit sequence or not.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
End Of Audit Sequence			ENUMERATED (	"End of audit sequence" = all
Indicator			End of audit	audit information has been
			sequence,	provided by the Node B.
			Not end of audit	"Not end of audit sequence" =
			sequence)	more audit information is
				available.

## 9.2.1.29B FN Reporting Indicator

The Frame Number Reporting Indicator indicates if the SFN or CFN shall be included together with the reported measurement value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FN Reporting Indicator			ENUMERATED ( FN Reporting Required, FN Reporting Not Required)	

#### 9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH [TDD - DSCH] for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Handling Priority			INTEGER (015)	"0" = lowest priority,
				 "15" = highest priority

#### 9.2.1.31 Frame Offset

The Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame Offset is used in the translation between Connection Frame Number (CFN) on Iub/Iur and the least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Offset			INTEGER (0255)	Frames

## 9.2.1.31A IB\_OC\_ID

The IB OC ID identifies the occurrence of a specific Information Block.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB OC ID			INTEGER (116)	

## 9.2.1.31B GPS Navigation Model & Time Recovery

This IE contains subframes 1 to 3 of the GPS navigation message. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	
Navigation Message 1to3		1 <maxno Sat&gt;</maxno 			
>Transmission TOW	М		INTEGER (01048575)	Time of the Week when the message is broadcast.	
>SatID	M		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].	
>TLM Message	М		BIT STRING (14)		
>Tlm Revd (Č)	М		BIT STRING (2)		
>HO-Word	М		BIT STRING (22)		
>WN	М		BIT STRING (10)		
>C/A or P on L2	Μ		BIT STRING (2)		
>User Range Accuracy Index	Μ		BIT STRING (4)		
>SV Health	Μ		BIT STRING (6)		
>IODC	Μ		BIT STRING (10)		
>L2 P Data Flag	Μ		BIT STRING (1)		
>SF 1 Reserved	М		BIT STRING (87)		
>T <sub>GD</sub>	М		BIT STRING (8)		
>t <sub>oc</sub>	М		BIT STRING (16)		
>af <sub>2</sub>	Μ		BIT STRING (8)		
>af1	Μ		BIT STRING (16)		
>af <sub>0</sub>	Μ		BIT STRING (22)		
>C <sub>rs</sub>	Μ		BIT STRING (16)		
>∆n	Μ		BIT STRING (16)		
>M <sub>0</sub>	Μ		BIT STRING (32)		
>C <sub>uc</sub>	Μ		BIT STRING (16)		
>e	Μ		BIT STRING (32)		
>C <sub>us</sub>	Μ		BIT STRING (16)		
>(A) <sup>1/2</sup>	Μ		BIT STRING (32)		
>t <sub>oe</sub>	Μ		BIT STRING (16)		
>Fit Interval Flag	М		BIT STRING (1)		
>AODO	Μ		BIT STRING (5)		
>C <sub>ic</sub>	Μ		BIT STRING (16)		
>OMEGA <sub>0</sub>	М		BIT STRING (32)		
>C <sub>is</sub>	М		BIT STRING (16)		
>i <sub>0</sub>	М		BIT STRING (32)		
>C <sub>rc</sub>	М		BIT STRING (16)		
>00	М		BIT STRING (32)		
>OMEGAdot	М		BIT STRING (24)		
>ldot	М		BIT STRING (14)		
>Spare/zero fill	М		BIT STRING (20)		

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be provided

# 9.2.1.31C GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
α <sub>0</sub>	М		BIT STRING (8)	
α <sub>1</sub>	М		BIT STRING (8)	
α <sub>2</sub>	М		BIT STRING (8)	
α <sub>3</sub>	М		BIT STRING (8)	
βο	М		BIT STRING (8)	
β1	М		BIT STRING (8)	
β <sub>2</sub>	М		BIT STRING (8)	
β <sub>3</sub>	М		BIT STRING (8)	

# 9.2.1.31D GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
A <sub>1</sub>	М		BIT STRING (24)	
A <sub>0</sub>	М		BIT STRING (32)	
t <sub>ot</sub>	М		BIT STRING (8)	
$\Delta t_{LS}$	М		BIT STRING (8)	
WNt	М		BIT STRING (8)	
WNLSF	М		BIT STRING (8)	
DN	М		BIT STRING (8)	
$\Delta t_{LSF}$	М		BIT STRING (8)	

## 9.2.1.31E GPS Real-Time Integrity

This IE provides the information regarding the status of the GPS constellation. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Bad Satellites Presence	М			
>Bad Satellites				
>>Satellite Information		1 <maxno Sat&gt;</maxno 		
>>>BadSatID	М		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].
>No Bad Satellites			NULL	

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be provided

#### 9.2.1.31F GPS Almanac

This IE provides the information regarding the GPS Almanac. For further details on the meaning of parameters, see [27].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
WNa	М		BIT STRING (8)	
Satellite Information	М	1 <maxno OfSatAlma nac&gt;</maxno 		See Note 1.
>DataID	Μ		INTEGER (03)	
>SatID	М		INTEGER (063)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].
>e	Μ		BIT STRING (16)	
>t <sub>oa</sub>	Μ		BIT STRING (8)	
>δi	Μ		BIT STRING (16)	
>OMEGADOT	М		BIT STRING (16)	
>SV Health	М		BIT STRING (8)	
>A <sup>1/2</sup>	М		BIT STRING (24)	
>OMEGA <sub>0</sub>	Μ		BIT STRING (24)	
>M0	Μ		BIT STRING (24)	
>00	М		BIT STRING (24)	
>af <sub>0</sub>	М		BIT STRING (11)	
>af <sub>1</sub>	М		BIT STRING (11)	
SV Global Health	0		BIT STRING (364)	

Range Bound	Explanation
maxNoOfSatAlmanac	Maximum number of satellite almanacs for which information can be
	provided

Note 1: This information element is a simplified representation of the ASN.1 description. Repetitions 1 through maxNoSat and repetitions maxNoSat+1 through maxNoOfSatAlmanac are represented by separate ASN.1 structures with different criticality.

#### 9.2.1.31G GPS Receiver Geographical Position (GPS RX Pos)

The GPS Receiver Geographical Position is used to identify the geographical coordinates of a GPS receiver relevant for a certain Information Exchange Object.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERATED ( North, South)	
Degrees of Latitude	М		INTEGER (02 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{23} X / 90 < N+1$ X being the latitude in degree $(0^{\circ}90^{\circ})$
Degrees of Longitude	Μ		INTEGER (-2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{24} X / 360 < N+1$ X being the longitude in degree (-180°+180°)
Direction of Altitude	М		ENUMERATED( Height, Depth)	
Altitude	Μ		INTEGER (02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \le a$ <n+1, except="" for="" n="2&lt;sup">15-1 for which the range is extended to include all greater values of (a).</n+1,>

# 9.2.1.31Ga HSDPA Capability

This parameter defines the HSDPA capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HSDPA Capability			ENUMERATED (HSDPA Capable, HSDPA non Capable)	

# 9.2.1.31H HS-DSCH Information To Modify

The *HS-DSCH Information To Modify* IE is used for modification of HS-DSCH information in a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFl ows&gt;</maxno 			_	
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		-	
>Allocation/Retention Priority	0		9.2.1.1A		_	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	-	
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxno ofPrioQue ues&gt;</maxno 			_	
>CHOICE Priority Queue	М				-	
>>Add Priority Queue						
>>>Priority Queue ID	М		9.2.1.49C		—	
>>>Associated HS- DSCH MAC-d Flow	M		HS-DSCH MAC-d Flow ID 9.2.1.31I	Shall only refer to an HS-DSCH MAC-d flow already existing in the old configuration. Multiple Priority Queues can be associated with the same HS- DSCH MAC-d Flow ID.	_	
>>>Scheduling Priority Indicator	М		9.2.1.53H		_	
>>>T1	M		9.2.1.56a		_	
>>>Discard Timer >>>MAC-hs Window Size	O M		9.2.1.24E 9.2.1.38B			
>>>MAC-hs Guaranteed Bit Rate	0		9.2.1.38Aa		-	
>>>MAC-d PDU Size Index		1 <maxno ofMACdP DUindexes &gt;</maxno 			_	
>>>>SID	М		9.2.1.531	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	-	
>>>>MAC-d PDU Size	Μ		9.2.1.38A	Shall be ignored if <i>Maximum</i>	_	

				MAC-d PDU Size Extended IE is present.		
>>>RLC Mode	Μ		9.2.1.52B		_	
>>>Maximum MAC-d PDU Size Extended	Ō		MAC PDU Size Extended 9.2.1.38C		YES	reject
>>Modify Priority Queue >>>Priority Queue ID	M		9.2.1.49C	Shall only refer to a Priority Queue already existing in the old configuration.	_	
>>>Scheduling Priority Indicator	0		9.2.1.53H	garateri	-	
>>>T1	0		9.2.1.56a		_	
>>>Discard Timer	0		9.2.1.24E		_	
>>>MAC-hs Window Size	0		9.2.1.38B		_	
>>>MAC-hs Guaranteed Bit Rate	0		9.2.1.38Aa		_	
>>>MAC-d PDU Size Index		0 <maxno ofMACdP DUindexes &gt;</maxno 			-	
>>>SID	М		9.2.1.531	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	-	
>>>MAC-d PDU Size	М		9.2.1.38A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	-	
>>>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.38C		YES	reject
>>Delete Priority Queue						
>>>Priority Queue ID	Μ		9.2.1.49C	Shall only refer to a Priority Queue already existing in the old configuration.	_	
MAC-hs Reordering Buffer Size for RLC-UM	0		9.2.1.38Ab		_	
CQI Feedback Cycle k	0		9.2.2.21B	For FDD only	_	
CQI Repetition Factor	0		9.2.2.4Cb	For FDD only	_	
ACK-NACK Repetition Factor	0		9.2.2.a	For FDD only	_	<b> </b>
CQI Power Offset	0		9.2.2.4Ca	For FDD only	_	
ACK Power Offset	0		9.2.2.b	For FDD only	_	
NACK Power Offset	0		9.2.2.23a	For FDD only	_	
HS-SCCH Power Offset	0		9.2.2.181	For FDD only	_	
Measurement Power Offset HS-SCCH Code Change	0		9.2.2.21C 9.2.1.31L	For FDD only	_	
Grant TDD ACK NACK Power Offset	0		9.2.3.18F	For TDD only	-	
HARQ Preamble Mode	0		9.2.2.18a	For FDD only	YES	ignore
HS-SICH SIR Target	0		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD	YES	ignore

				only		
UE Capabilities Information		01			YES	ignore
>HS-DSCH Physical Layer Category	М		9.2.1.31la		-	
>1.28 Mcps TDD Uplink Physical Channel Capability	0		9.2.3.5Gc	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMERA TED ( One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier,)	Applicable to 1.28Mcps TDD only This IE indicates the number of carrier(s) the UE can support at the same time, where 'x-y carrier' means x for the uplink, and y for the downlink.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.31la	Applicable to 1.28Mcps TDD only	YES	ignore
HS-SICH TPC step size	0		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	ignore
HS-PDSCH Code Change Grant	0		9.2.1.31N	For FDD only	YES	ignore
MIMO Mode Indicator	0		9.2.2.72	For FDD only	YES	reject
HS-DSCH MAC-d PDU Size Format	0		9.2.1.31ID		YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.74A	For FDD only	YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofPrioQueues	Maximum number of Priority Queues
maxnoofMACdPDUindexes	Maximum number of different MAC-d PDU SIDs

## 9.2.1.31HA HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a Node B Communication Context with the Unsynchronised Radio Link Reconfiguration procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFl ows&gt;</maxno 			_	
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	
>Allocation/Retention Priority	0		9.2.1.1A		_	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxno ofPrioQue ues&gt;</maxno 			_	
>Priority Queue ID	М	4002	9.2.1.49C		_	
>Scheduling Priority Indicator	0		9.2.1.53H		_	
>Discard Timer	0		9.2.1.24E		_	
>MAC-hs Guaranteed Bit Rate	0		9.2.1.38Aa		_	
CQI Power Offset	0		9.2.2.4Ca	For FDD only	_	
ACK Power Offset	0		9.2.2.b	For FDD only	—	
NACK Power Offset	0		9.2.2.23a	For FDD only	_	
HS-SCCH Power Offset	0		9.2.2.181	For FDD only	_	
TDD ACK NACK Power Offset	0		9.2.3.18F	For TDD only	-	
HARQ Preamble Mode	0	-	9.2.2.18a	For FDD only	YES	ignore
HS-SICH SIR Target	0		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	ignore
<b>UE Capabilities Information</b>		01			YES	ignore
>HS-DSCH Physical Layer Category	М		9.2.1.31la		YES	ignore
>1.28 Mcps TDD Uplink Physical Channel Capability	0		9.2.3.5Gc	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMERA TED ( One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier,)	Applicable to 1.28Mcps TDD only This IE indicates the number of carrier(s) the UE can support at the same time, where 'x-y carrier' means x for the uplink, and y for the downlink.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.31la	Applicable to 1.28Mcps TDD	YES	ignore

			only		
HS-SICH TPC step size	0	9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	ignore
MIMO Mode Indicator	0	9.2.2.72	For FDD only	YES	reject
Sixtyfour QAM Usage Allowed Indicator	0	9.2.2.74A	For FDD only	YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofPrioQueues	Maximum number of Priority Queues

### 9.2.1.31Ha HS-DSCH Initial Capacity Allocation

The *HS-DSCH Initial Capacity Allocation* IE provides flow control information for each scheduling priority class for the HS-DSCH FP over Iub.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH Initial Capacity Allocation		1 <max noofPrio Queues &gt;</max 			_	
>Scheduling Priority Indicator	Μ		9.2.1.53H		_	
>Maximum MAC-d PDU Size	М		MAC-d PDU Size 9.2.1.38A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	_	
>HS-DSCH Initial Window Size	М		9.2.1.31Hb		_	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.38C		YES	ignore

Range Bound	Explanation
maxnoofPrioQueues	Maximum number of Priority Queues

#### 9.2.1.31Hb HS-DSCH Initial Window Size

Indicates the initial number of MAC-d PDUs (or octets in case *HS-DSCH MAC-d PDU Size Format* = "Flexible MAC-d PDU Size") that may be transmitted before new credits are received from the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Initial Window Size			INTEGER (1255)	Number of MAC-d PDUs If HS-DSCH MAC-d PDU Size Format = "Flexible MAC-d PDU Size" the credit shall be determined in octets: credit (in octets) = Maximum MAC-d PDU Size Extended * HS-DSCH Initial Window Size

## 9.2.1.311 HS-DSCH MAC-d Flow ID

HS-DSCH MAC-d Flow ID is the unique identifier for one MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flow ID			INTEGER (07)	

### 9.2.1.31IA HS-DSCH MAC-d Flows Information

The *HS-DSCH MAC-d Flows Information* IE is used for the establishment of HS-DSCH MAC-d flows for a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		1 <maxno ofMACdFI ows&gt;</maxno 			_	

>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	
>Allocation/Retention	М		9.2.1.1A		_	
Priority >Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	-	
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		1 <maxno ofPrioQue ues&gt;</maxno 			-	
>Priority Queue ID	М		9.2.1.49C		-	
>Associated HS-DSCH MAC-d Flow >Scheduling Priority	M		9.2.1.53H	The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with the same HS- DSCH MAC-d Flow ID.	-	
Indicator						
>T1	М		9.2.1.56a		_	
>Discard Timer	0		9.2.1.24E		_	
>MAC-hs Window Size >MAC-hs Guaranteed Bit	M O		9.2.1.38B 9.2.1.38Aa			
Rate >MAC-d PDU Size Index		1 <maxno ofMACdP DUindexes &gt;</maxno 			_	
>>SID	М		9.2.1.531	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	-	
>>MAC-d PDU Size	М		9.2.1.38A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size Extended</i> IE is present.	_	
>RLC Mode	M		9.2.1.52B		-	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.38C		YES	reject

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofPrioQueues	Maximum number of Priority Queues
maxnoofMACdPDUindexes	Maximum number of different MAC-d PDU SIDs

## 9.2.1.31IB HS-DSCH MAC-d Flows To Delete

The *HS-DSCH MAC-d Flows To Delete* IE is used for the removal of HS-DSCH MAC-d flows from a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d Flows To Delete		1 <maxno ofMACdFI ows&gt;</maxno 		
>HS-DSCH MAC-d Flow ID	М		9.2.1.311	

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows

### 9.2.1.31IC HS-DSCH MAC-d PDU Size Capability

This parameter defines the capability for a Local Cell to support different MAC-d PDU Size formats. If this IE is set to "Flexible Size Capable" the Local Cell is "Indexed Size Capable" and "Flexible Size Capable". If not present or set to "Indexed Size Capable" the Local Cell is only "Indexed Size Capable".

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d PDU Size Capability			ENUMERAT ED (Indexed	
Capability			Size	
			Capable, Flexible Size	
			Capable)	

### 9.2.1.31ID HS-DSCH MAC-d PDU Size Format

The *HS-DSCH MAC-d PDU Size Format* IE provides information about the type of MAC-d PDU Size Format used for HS-DSCH. "Indexed MAC-d PDU Size" uses MAC-d PDU sizes based on *SID* IE and *MAC-d PDU Size* IE of *MAC-d PDU Size Index* IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by *Maximum MAC-d PDU Size Extended* IE of *Priority Queue Information* IE. The actual MAC-d PDU size is determined as specified in [24] and [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH MAC-d PDU Size Format			ENUMERATED (Indexed MAC-d PDU Size, Flexible MAC-d PDU Size)	

### 9.2.1.311a HS-DSCH Physical Layer Category

The *HS-DSCH Physical Layer Category* IE defines a set of UE radio access capabilities related to HSDPA, as defined in [33].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Physical Layer Category			INTEGER (164,)	

### 9.2.1.31 laa HS-DSCH Provided Bit Rate Value

The HS-DSCH Provided Bit Rate Value IE indicates the HS-DSCH Provided Bit Rate as defined in [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Provided Bit Rate Value			INTEGER (02^24-1,, 2^24256,000,000)	Expressed in bit/s for FDD, 1.28Mcps TDD and 3.84Mcps TDD. For 7.68Mcps TDD the value shall be doubled to give the value in bit/s.

### 9.2.1.31lb HS-DSCH Provided Bit Rate Value Information

The HS-DSCH Provided Bit Rate Value Information IE reports the HS-DSCH Provided Bit Rate Value IE for each priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Provided Bit Rate Value Information		1 <maxno ofPriorityCl</maxno 		
		asses>		
>Scheduling Priority Indicator	Μ		9.2.1.53H	
>HS-DSCH Provided Bit Rate Value	М		9.2.1.31laa	

Range Bound	Explanation
maxNoofPriorityClasses	Maximum number of HS-DSCH Scheduling Priorities

## 9.2.1.31lba HS-DSCH Required Power Value

The *HS-DSCH Required Power Value* IE indicates the minimum necessary power for a given priority class to meet the Guaranteed Bit Rate for all the established HS-DSCH connections belonging to this priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Required Power			INTEGER (01000)	Expressed in thousandths of
Value				the max transmission power

### 9.2.1.31Ic HS-DSCH Required Power Value Information

The *HS-DSCH Required Power Value Information* IE reports the *HS-DSCH Required Power Value* IE for each priority class. For each priority class, a list of UEs, identified by the *CRNC Communication Context* IEs, requiring a particularly high amount of power to meet the Guaranteed Bit Rate for their established HS-DSCH connections may be included. Additionally, the *HS-DSCH Required Power Per UE Weight* IE may be included for each of those UEs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Required Power Value Information		1 <maxno ofPriorityCl asses&gt;</maxno 		
>Scheduling Priority Indicator	М		9.2.1.53H	
>HS-DSCH Required Power Value	М		9.2.1.31lba	
>HS-DSCH Required Power Per UE Information		0 <maxno ofContexts onUeList&gt;</maxno 		List of UEs with Guaranteed Bit Rate indicating their required power consumption relative to the HS-DSCH Required Power Value.
>CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCCC" shall not be used.
>>HS-DSCH Required Power Per UE Weight	0		INTEGER (0100)	Expressed in percentage of the value provided in the HS- DSCH Required Power Value IE

Range Bound	Explanation
maxNoofContextsonUeList	Maximum number of Communication Contexts to include in the list of UEs
maxNoofPriorityClasses	Maximum number of HS-DSCH Scheduling Priorities

### 9.2.1.31J HS-DSCH RNTI

The HS-DSCH RNTI is used for the UE-specific CRC in HS-SCCH and HS-DSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH RNTI			INTEGER (065535)	

#### 9.2.1.31K HS-SCCH Code Change Indicator

The HS-SCCH Code Change Indicator indicates whether the HS-SCCH Code change is needed or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Code Change Indicator			ENUMERATED (HS- SCCH Code Change	
			needed)	

#### 9.2.1.31L HS-SCCH Code Change Grant

The HS-SCCH Code Change Grant IE indicates that modification of HS-SCCH Codes is granted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Code Change Grant			ENUMERATED (Change Granted)	

### 9.2.1.31M HS-PDSCH Code Change Indicator [FDD]

The HS-PDSCH Code Change Indicator indicates whether the HS-PDSCH Code change is needed or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH Code Change Indicator			ENUMERATED (HS- PDSCH Code	
muicator			Change needed)	

## 9.2.1.31N HS-PDSCH Code Change Grant [FDD]

The HS-PDSCH Code Change Grant IE indicates that modification of HS-PDSCH Codes is granted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH Code Change Grant			ENUMERATED (Change Granted)	

## 9.2.1.32 IB\_SG\_DATA

Segment as defined in ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_DATA			BIT STRING	Contains "SIB data fixed" or "SIB data variable" in segment as encoded in ref. [18]. See Annex D

## 9.2.1.33 IB\_SG\_POS

The lowest position of a specific Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_POS			INTEGER (04094)	Only even positions are allowed. See ref. [18]

## 9.2.1.34 IB\_SG\_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod  $IB_SG_REP = IB_SG_POS$ .

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_REP			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096)	Repetition period for the IB segment in frames

### 9.2.1.35 IB Type

The IB Type identifies a specific system information block.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB Type			ENUMERATED ( MIB, SB1, SB2, SIB1, SIB2, SIB3, SIB4, SIB5, SIB6, SIB7, not-Used-SIB8, not-Used-SIB9, not-Used-SIB10, SIB11, SIB12, SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4, SIB13.4, SIB15, SIB15.1, SIB15.2, SIB15.3, SIB16,	
			, SIB17, SIB15.4, SIB15.5, SIB5bis, SIB11bis, SIB15bis, SIB15.1bis, SIB15.2bis, SIB15.2bis, SIB15.3bis, 15.6, 15.7, 15.8)	

9.2.1.36 Indication Type

Void.

## 9.2.1.36A Information Exchange Object Type

Void.

## 9.2.1.36B Information Report Characteristics

The information report characteristics defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Report Characteristics Type	М			
>On Demand			NULL	
>Periodic				
>>CHOICE Information Report Periodicity Scale	М			The frequency with which the Node B shall send information reports.
>>>minute				
>>>Report Periodicity Value	М		INTEGER (160,)	Unit: min
>>>hour				
>>>>Report Periodicity Value	М		INTEGER (124,)	Unit: h
>On Modification				
>>Information Threshold	0		9.2.1.36E	

### 9.2.1.36C Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Exchange ID	М		INTEGER (02^20-1)	

### 9.2.1.36D Information Type

The Information Type indicates which kind of information the Node B shall provide.

IE/Group Name	Presence	Range	IE Type and	Semantics	Criticality	Assigned
lafama dia Tana Itana			Reference	Description		Criticality
Information Type Item	М		ENUMERATE		-	
			D ( GPS			
			Information,			
			DGPS			
			Corrections,			
			GPS RX Pos,			
			,			
			GANSS			
			Information,			
			DGANSS			
			Corrections,			
			GANSS RX			
			Pos)			
GPS Information	C-GPS	0 <maxno< td=""><td></td><td></td><td>_</td><td></td></maxno<>			_	
		GPSItems>				
>GPS Information Item			ENUMERATE D (		-	
			GPS			
			Navigation			
			Model & Time			
			Recovery,			
			GPS			
			Ionospheric			
			Model,			
			GPS UTC			
			Model,			
			GPS Almanac,			
			GPS Real-			
			Time Integrity,			
GANSS Information	C-GANSS	1	)		YES	ignore
>GANSS Common	C-04//00	01			-	ignore
Data		01				
>>lonospheric	0		BOOLEAN	True means	_	
Model	-			requested		
>GANSS Generic		0 <maxno< td=""><td></td><td>•</td><td>_</td><td></td></maxno<>		•	_	
Data		GANSS>				
>>GANSS ID	0		9.2.1.104		—	
>>GANSS	0		BOOLEAN	True means	-	
Navigation Model				requested		
And Time Recovery			DIT	Dofines the		
>>GANSS Time Model GNSS-	0			Defines the time model	-	
GNSS			STRING(9)			
66010				required.		
				Bit 1 is the MSB		
				and bit 9 is the		
				LSB (see		
				section 9.2.0).		
	1					
				Bit 1:GPS,		
				Bit 1:GPS, Bit 2:Galileo		
				Bit 2:Galileo		
				Bit 2:Galileo Other bits are		
				Bit 2:Galileo Other bits are reserved.		
>>GANSS UTC	0		BOOLEAN	Bit 2:Galileo Other bits are reserved. True means	_	
Model				Bit 2:Galileo Other bits are reserved. True means requested		
	0		BOOLEAN	Bit 2:Galileo Other bits are reserved. True means requested True means	-	
Model >>GANSS Almanac	0		BOOLEAN	Bit 2:Galileo Other bits are reserved. True means requested True means requested		
Model >>GANSS Almanac >>GANSS Real				Bit 2:Galileo Other bits are reserved. True means requested True means requested True means		
Model >>GANSS Almanac	0	01	BOOLEAN	Bit 2:Galileo Other bits are reserved. True means requested True means requested		
Model >>GANSS Almanac >>GANSS Real Time Integrity >>GANSS Data Bit Assistance	0	01	BOOLEAN	Bit 2:Galileo Other bits are reserved. True means requested True means requested True means requested	-	
Model >>GANSS Almanac >>GANSS Real Time Integrity >>GANSS Data Bit	0	01	BOOLEAN	Bit 2:Galileo Other bits are reserved. True means requested True means requested True means	-	

				which the data bits are requested		
>>>Data Bit Assistance		1			-	
>>>>DGANSS Signal ID	М		BIT STRING(8)	Defined in [18]	_	
>>>>GANSS Data Bit Interval	М		INTEGER (015)	Defined in [18]	_	
>>>>Satellite Information		0 <maxga NSSSat&gt;</maxga 			_	
>>>Sat ID	М		INTEGER(06 3)	Identifies the satellite and is equal to (SV ID No - 1)	-	
DGANSS Corrections Req	C- DGANSS Correction s	1			YES	ignore
>DGANSS Signal ID	М		BIT STRING(8)	Defined in [18]	_	

Condition	Explanation
DGANSSCorrections	The IE shall be present if the Information Type Item IE indicates "DGANSS Corrections".
GPS	The IE shall be present if the <i>Information Type Item</i> IE indicates "GPS Information".
GANSS	The IE shall be present if the <i>Information Type Item</i> IE indicates "GANSS Information".

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxNoGPSItems	Maximum number of GPS Information Items supported in one
	Information Exchange
maxNoGANSS	Maximum number of GANSS Systems

#### 9.2.1.36E Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Type Item	М			
>DGPS				
>>PRC Deviation	М		ENUMERATED (1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report
>DGANSS				
>>PRC Deviation	М		ENUMERATED (1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report

### 9.2.1.36F IPDL Indicator

Indicates if IPDL periods shall be active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IPDL Indicator			ENUMERATED (	
			active, inactive)	

#### 9.2.1.37 Limited Power Increase

Void.

### 9.2.1.37A Local Cell Group ID

The Local Cell Group ID represents resources in the Node B, which have been pooled from a capacity point of view.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Local Cell Group ID			Local Cell ID 9.2.1.38	

### 9.2.1.38 Local Cell ID

The local cell ID represents resources in the Node B that can be used for the configuration of a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Local Cell ID			INTEGER (0268435455)	

### 9.2.1.38A MAC-d PDU Size

The MAC-d PDU Size provides the size in bits of the MAC-d PDU.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-d PDU Size			INTEGER (15000,)	In case of E-DCH, value 8 and values not multiple of 8 shall not be used.

### 9.2.1.38Aa MAC-hs Guaranteed Bit Rate

The *MAC-hs Guaranteed Bit Rate* IE indicates the guaranteed number of bits per second that Node B should deliver over the air interface under normal operating conditions (provided there is data to deliver). If the *MAC-hs Guaranteed Bit Rate* IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Guaranteed Bit Rate			INTEGER (02^24-1,, 2^24256,000,000)	Unit: bit/s

### 9.2.1.38Ab MAC-hs Reordering Buffer Size for RLC-UM

The *MAC-hs Reordering Buffer Size for RLC-UM* IE indicates the portion of the buffer in the UE that can be used for RLC-UM traffic (i.e. for Priority Queues whose *RLC Mode* IE is set to "RLC-UM").

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Reordering Buffer Size			INTEGER (0300,)	Unit: kBytes And N kBytes = N*1024 Bytes. The Node B shall use this value to avoid the overflow of the MAC-hs reordering buffer.

#### 9.2.1.38Ac MAC-hs Reset Indicator

The MAC-hs Reset Indicator IE indicates that a reset of the MAC-hs is not required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Reset Indicator			ENUMERATED (MAC-hs Not Reset)	

#### 9.2.1.38B MAC-hs Window Size

The MAC-hs Window Size IE is used for MAC-hs PDU retransmission as defined in [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-hs Window Size			ENUMERATED (4, 6, 8, 12, 16, 24, 32,)	For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,)

#### 9.2.1.38C MAC PDU Size Extended

The *MAC PDU Size Extended* IE provides the size in octets of the MAC level PDU when an extended MAC level PDU size is required.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC PDU Size Extended			INTEGER (11504,,1505)	

#### 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell or a Power Local Cell Group within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum DL Power Capability			INTEGER (0500)	Unit: dBm Range: 050 dBm Step: 0.1 dB

#### 9.2.1.40 Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. [1.28Mcps TDD - For a multi-frequency cell, the Maximum Transmission Power is

the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used on one frequency in a cell.] The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Transmission Power			INTEGER (0500)	Unit: dBm
				Range: 050 Step: 0.1 dB

#### 9.2.1.40A Measurement Availability Indicator

Void.

#### 9.2.1.40B Measurement Change Time

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Time Scale	Μ			
>millisecond				
>>Measurement Change Time Value	М		INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms

### 9.2.1.41 Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Filter Coefficient			ENUMERATED ( 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,)	

### 9.2.1.41A Measurement Hysteresis Time

The Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the Measurement Reporting procedure to be triggered.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Time Scale	М			
>millisecond				
>>Measurement Hysteresis	М		INTEGER	Unit: ms
Time Value			(16000,)	Range: 1060000 ms
				Step: 10 ms

#### 9.2.1.42 Measurement ID

The Measurement ID uniquely identifies any measurement per (Node B or Communication) Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			INTEGER (02^20-1)	

### 9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Increase/Decrease Threshold	M				_	
>Received Total Wide Band Power						
>>Received Total Wide Band Power	M		INTEGER (0620)	Unit: dB Range: 062 dB Step: 0.1 dB	_	
>Transmitted Carrier Power						
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	-	
>Acknowledged PRACH Preambles				FDD only		
>Acknowledged PRACH Preambles >UL Timeslot ISCP	М		INTEGER (0240,)	According to mapping in [22]	-	
>>UL Timeslot ISCP >>UL Timeslot ISCP	M		INTEGER (0126)	TDD only Unit: dB Range: 063 dB Step: 0.5 dB	_	
>SIR >>SIR	M		INTEGER (062)	Unit: dB Range: 031 dB Step: 0.5 dB	-	
>SIR Error				FDD only		
>>SIR Error	М		INTEGER (0124)	Unit: dB Range: 062 dB Step: 0.5 dB	_	
>Transmitted Code Power						
>>Transmitted Code Power	M		INTEGER (0112,)	Unit: dB Range: 056 dB Step: 0.5 dB	-	
>RSCP				TDD only		
>>RSCP	М		INTEGER (0126)	Unit: dB Range: 063 dB Step: 0.5 dB	_	
>Round Trip Time				FDD only		
>>Round Trip Time	М		INTEGER (032766)	Unit: chips Range: 0 2047.875 chips Step: 0.625 chips	-	
>Not Used 1			NULL	This choice shall not be used. Reject procedure if received.		
>Not Used 2			NULL	This choice shall not be used. Reject procedure if received.		
>Additional Measurement Thresholds				See Note 1.		
>>Transmitted Carrier Power Of All Codes Not Used For						
HSTransmission						
>>>Transmitted Carrier Power Of All Codes Not Used For HSTransmission	M		INTEGER (0100)	According to mapping in [22], measurement "Transmitted Carrier Power Of All Codes Not Used For HS- PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission"	YES	reject

			and mapping in [23],		
			measurement "Transmitted Carrier		
			Power Of All Codes		
			Not Used For HS-		
			PDSCH Or HS-SCCH		
>>Transmitted			Transmission" FDD only		
Carrier Power For					
Cell Portion					
>>>Transmitted Carrier Power For	М	INTEGER (0100)	Mapping identical to the one for	YES	reject
Cell Portion		(0100)	Transmitted Carrier		
			Power measurement		
			in [22]		
>>Received Total Wide Band Power			FDD only		
For Cell Portion					
>>>Received	M	INTEGER	Unit: dB	YES	reject
Total Wide Band		(0620)	Range: 062 dB		
Power For Cell			Step: 0.1 dB		
Portion >>Transmitted			FDD only		
Carrier Power Of All					
Codes Not Used					
For HS-PDSCH,					
HS-SCCH, E-					
AGCH, E-RGCH or E-HICH					
Transmission For					
Cell Portion					
>>>Transmitted	М	INTEGER	Mapping identical to	YES	reject
Carrier Power Of		(0100)	the one for Transmitted Carrier		
All Codes Not Used For HS-			Power Of All Codes		
PDSCH, HS-			Not Used For HS-		
SCCH, E-AGCH,			PDSCH, HS-SCCH,		
E-RGCH or E-			E-AGCH, E-RGCH or		
HICH Transmission For			E-HICH Transmission		
Cell Portion			measurement in [22]		
>>UpPCH			1.28Mcps TDD Only		
interference					
>>>UpPCH	Μ	INTEGER	According to mapping	YES	reject
interference Value >>Received		(0127,)	in [23] FDD only		
Scheduled E-					
DCH Power					
Share					
>>>RSEPS value	М	INTEGER (0151)	According to mapping in [22]	YES	reject
>>Received			FDD only		
Scheduled E-DCH					
Power Share For Cell Portion					
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
		(0151)	in [22]		,

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

### 9.2.1.43A Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Behavior			NULL	

### 9.2.1.43B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery			NULL	
Reporting Indicator				

## 9.2.1.43C Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Support Indicator			NULL	

### 9.2.1.44 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E, F or On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Threshold	М				_	
>Received Total						
Wide Band Power						
>Received Total Wide Band Power	М		INTEGER (0621)	According to mapping in [22] and [23]	_	
>Transmitted Carrier Power						
>>Transmitted Carrier Power	М		INTEGER (0100)	According to mapping in [22] and [23]	_	
>Acknowledged PRACH Preambles				FDD only		
>>Acknowledged PRACH Preambles	М		INTEGER (0240,)	According to mapping in [22]	_	
>UL Timeslot ISCP				TDD only		
>>UL Timeslot ISCP	М		INTEGER (0127)	According to mapping in [23]	_	
>SIR						
>>SIR	М		INTEGER (063)	According to mapping in [22] and [23]	-	
>SIR Error				FDD only		
>>SIR Error	М		INTEGER (0125)	According to mapping in [22]	_	
>Transmitted Code Power						
>>Transmitted	М		INTEGER	According to mapping	-	
Code Power			(0127)	in [22] and [23]		
>RSCP				TDD only		
>>RSCP	M		INTEGER (0127)	According to mapping in [23]	_	
>Rx Timing Deviation				Applicable to 3.84Mcps TDD only		
>>Rx Timing Deviation	М		INTEGER (08191)	According to mapping in [23]	_	
>Round Trip Time				FDD only		
>>Round Trip Time	M		INTEGER (032767)	According to mapping in [22]	_	
>Not Used 1			NULL	This choice shall not be used. Reject procedure if received.		
>Not Used 2			NULL	This choice shall not be used. Reject		
>Additional Measurement				procedure if received. See Note 1.		
Thresholds >>UTRAN GPS						
Timing Of Cell Frames For UE					_	
Positioning	•		0.04.040		VEO	nais -t
>>>T <sub>UTRAN-GPS</sub> Measurement Threshold	M		9.2.1.64B		YES	reject
Information						
>>SFN-SFN Observed Time Difference						
Difference >>>SFN-SFN	Μ		9.2.1.53C		YES	reject
Measurement Threshold			0.2.1.000			ICJCCL
Information						
>>Rx Timing				Applicable to		
Deviation LCR				1.28Mcps TDD Only		
>>>Rx Timing Deviation LCR	М		INTEGER (0511)	According to mapping in [23]	YES	reject

>>HS-SICH			Applicable to TDD		
Reception Quality			Only		
>>>HS-SICH	М	INTEGER	According to mapping	YES	reject
Reception Quality		(020)	in [23]		
>>Transmitted Carrier Power Of All					
Codes Not Used					
For					
HSTransmission					
>>>Transmitted Carrier Power Of	М	INTEGER (0100)	According to mapping in [22], measurement	YES	reject
All Codes Not		(0100)	"Transmitted Carrier		
Used For			Power Of All Codes		
HSTransmission			Not Used For HS-		
			PDSCH, HS-SCCH, E-AGCH, E-RGCH or		
			E-HICHTransmission"		
			and [23],		
			measurement		
			"Transmitted Carrier Power Of All Codes		
			Not Used For HS-		
			PDSCH Or HS-SCCH		
>>HS-DSCH			Transmission"		
Required Power					
>>>HS-DSCH	М	9.2.1.31lba		YES	reject
Required Power					
Value >>Transmitted			FDD only		
Carrier Power For					
Cell Portion					
>>>Transmitted Carrier Power For	М	INTEGER (0100)	Mapping identical to the one for	YES	reject
Cell Portion		(0100)	Transmitted Carrier		
			Power measurement		
Dessived Total			in [22]		
>>Received Total Wide Band Power			FDD only		
For Cell Portion					
>>>Received	М	INTEGER	Mapping identical to	YES	reject
Total Wide Band Power For Cell		(0621)	the one for Received Total Wide Band		
Portion			Power measurement		
			in [22]		
>>Transmitted			FDD only		
Carrier Power Of All Codes Not Used					
For HS-PDSCH,					
HS-SCCH, E-					
AGCH, E-RGCH or E-HICH					
Transmission For					
Cell Portion					
>>>Transmitted	М	INTEGER	Mapping identical to	YES	reject
Carrier Power Of All Codes Not		(0100)	the one for Transmitted Carrier		
Used For HS-			Power Of All Codes		
PDSCH, HS-			Not Used For HS-		
SCCH, E-AGCH,			PDSCH, HS-SCCH,		
E-RGCH or E- HICH			E-AGCH, E-RGCH or E-HICH Transmission		
Transmission			measurement in [22]		
Value For Cell					
Portion			1 29Mona TDD Oalu		
>>UpPCH interference			1.28Mcps TDD Only		
>>>UpPCH	М	INTEGER	According to mapping	YES	reject

interference Value		(0127,)	in [23]		
>>DL Transmission		(0127,)	FDD Only		
Branch Load			1 DD Only		
>>>DL	Μ	INTEGER	According to mapping	YES	reject
Transmission		(0101,)	in [22]	. 20	rojoot
Branch Load		(0)	[]		
Value					
>>HS-DSCH			FDD only		
Required Power					
For Cell Portion					
>>>HS-DSCH	Μ	HS-DSCH		YES	reject
Required Power		Required			
Value For Cell		Power Value			
Portion		9.2.1.31lba			
>>E-DCH Non-			FDD only		
serving Relative			,		
Grant Down					
Commands					
>>>E-DCH Non-	Μ	INTEGER	Down Commands per	YES	reject
serving Relative	101	(0100,)	second	TEO	rejeet
Grant Down		(0100,)	000010		
Commands Value					
>>Rx Timing			Applicable to		
			7.68Mcps TDD Only		
Deviation 768	N4			VEO	roiact
>>>Rx Timing	М	INTEGER	According to mapping	YES	reject
Deviation 768		(065535)	in [23]		
>>Rx Timing			Applicable to		
Deviation 384			3.84Mcps TDD Only		
Extended					
>>>Rx Timing	M	INTEGER	According to mapping	YES	reject
Deviation 384		(032767)	in [23]		
Extended					
>>Extended Round			FDD only		
Trip Time					
>>>Extended	M	INTEGER	Continuation of	YES	reject
Round Trip Time		(3276710304	intervals with step		
Value		1)	size as defined in		
			[22].		
>>Received			FDD only		
Scheduled E-			-		
DCH Power					
Share					
>>>RSEPS value	М	INTEGER	According to mapping	YES	reject
		(0151)	in [22]	-	-,
>>Received		(- · - · /	FDD only		1
Scheduled E-					
DCH Power					
Share for Cell					
Portion					
>>>RSEPS value	M	INTEGER	According to mapping	YES	reject
	141	(0151)	in [22]	TES	reject
>>Additional HS-		(0131)	Applicable to		
			1.28Mcps TDD Only		
SICH Reception					
Quality >>>HS-SICH			A a a a valiza za ta za		
	М	INTEGER	According to mapping	YES	reject
Reception Quality		(020)	in [23]		
LCR			used when the		
			Measurement		
			Threshold Value for		
			HS-SICH Reception		
			Quality are more than		
			20, Measurement		
			Threshold Value = 20		
					1
			+ IE Value		
>>UTRAN GANSS			+ IE Value		
Timing Of Cell			+ IE Value		
Timing Of Cell Frames For UE			+ IE Value		
Timing Of Cell			+ IE Value		

>>>T <sub>UTRAN-GANSS</sub> Measurement	М	9.2.1.99	YES	reject
Threshold				
Information				

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

#### 9.2.1.45 Message Discriminator

This field is used to discriminate between Dedicated NBAP and Common NBAP messages.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
			Reference	
Message Discriminator			ENUMERATED (	
			Common,	
			Dedicated)	

#### 9.2.1.45A Message Structure

The *Message Structure* IE gives information for each level with assigned criticality in an hierarchical message structure from top level down to the lowest level above the reported level for the occurred error (reported in the *Information Element Criticality Diagnostics* IE).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Message Structure		1 <maxno oflevels&gt;</maxno 		The first repetition of the Message Structure IE corresponds to the top level of the message. The last repetition of the Message Structure IE corresponds to the level above the reported level for the occurred error of the message.
>IE ID	М		INTEGER (065535)	The IE ID of this level"s IE containing the not understood or missing IE.
>Repetition Number	0		INTEGER (1256)	The Repetition Number IE gives, if applicable, the number of occurrences of this level"s reported IE up to and including the occurrence containing the not understood or missing IE. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality above them.

Range Bound	Explanation
maxnooflevels	Maximum number of message levels to report. The value for
	maxnooflevels is 256.

### 9.2.1.46 Message Type

The Message Type uniquely identifies the message being sent.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Procedure ID	М	1		
-				"0" = Audit         "1" = Audit Required         "2" = Block Resource         "3" = Cell Deletion         "4" = Cell Reconfiguration         "5" = Cell Setup         "6" = Common Measurement Failure         "7" = Common Measurement Report         "9" = Common Measurement Report         "9" = Common Measurement Report         "9" = Common Transport Channel Delete         "11" = Common Transport Channel Setup         "13" = Reset         "14" = Compressed Mode Command         "16" = Dedicated Measurement Failure         "17" = Dedicated Measurement Report         "19" = Dedicated Measurement Report         "21" = Error Indication (For Dedicated         Procedures)         "23" = Radio Link Addition         "24" = Radio Link Addition         "25" = Radio Link Setup         "26" = Radio Link Restoration         "30" = Synchronised Radio Link         Reconfiguration Cancellation         "30" = Synchronised Radio Link         Reconfiguration Preparation
			FDD, Common, )	
Type of Message	М		ENUMERATED (	

#### 9.2.1.46a MICH CFN

The MICH CFN indicates the Connection Frame Number for the MICH. It corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located, see ref [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MICH CFN			INTEGER (04095)	

#### 9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum DL Power Capability			INTEGER (0800)	Unit: dBm Range: -30 +50 dBm Step: 0.1 dB

### 9.2.1.47 Minimum Spreading Factor

This parameter indicates the minimum spreading factor supported at a cell within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading Factor			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512)	[TDD - Mapping scheme for the minimum spreading factor 1 and 2: '256' means 1 '512' means 2]

#### 9.2.1.47a Modification Period

The Modification Period of the MICH, see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Modification Period			ENUMERATED (1280, 2560, 5120, 10240)	Unit: ms

#### 9.2.1.47A N\_INSYNC\_IND

This parameter is used by the Node B for achievement/re-achievement of UL synchronisation on the Uu interface as defined in ref. [10] and [21].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_INSYNC_IND			INTEGER (1256)	

### 9.2.1.47B N\_OUTSYNC\_IND

This parameter defines the number of consecutive out-of-sync indications after which the timer T\_RLFAILURE shall be started (see also ref. [10] and [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_OUTSYNC_IND			INTEGER (1256)	

### 9.2.1.47C Neighbouring FDD Cell Measurement Information

This IE provides information on the FDD neighbouring cells used for the purpose of measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UC-Id	Μ		9.2.1.65B	
UARFCN	М		9.2.1.65	Corresponds to Nd [14]
Primary Scrambling Code	М		9.2.2.34	

### 9.2.1.47D Neighbouring TDD Cell Measurement Information

This IE provides information on the 3.84Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot* IE and *Midamble Shift And Burst Type* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UC-Id	М		9.2.1.65B	
UARFCN	М		9.2.1.65	Corresponds to Nt [15]
Cell Parameter ID	М		9.2.3.4	
Time Slot	0		9.2.3.23	
Midamble Shift And Burst Type	0		9.2.3.7	

### 9.2.1.47E Neighbouring TDD Cell Measurement Information LCR

This IE provides information on the neighbouring 1.28Mcps TDD cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot LCR* IE and *Midamble Shift LCR* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UC-Id	М		9.2.1.65B	
UARFCN	М		9.2.1.65	Corresponds to Nt [15]
Cell Parameter ID	М		9.2.3.4	
Time Slot LCR	0		9.2.3.24A	
Midamble Shift LCR	0		9.2.3.7A	

### 9.2.1.47F NI

The NI IE provides a Notification Indicator determined as specified in [37].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
NI			INTEGER (065535)	

#### 9.2.1.48 Node B Communication Context ID

The Node B Communication Context ID is the identifier of the Communication Context in the Node B, it corresponds to the dedicated resources which are necessary for an UE using one or more dedicated channels in a given Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Node B Communication Context ID			INTEGER (02^20-1)	"2^20-1" is a reserved value indicating all the existing and future Node B Communication Contexts that can be reached by the Communication Control Port (All NBCC).

### 9.2.1.49 Payload CRC Presence Indicator

This parameter indicates whether FP payload 16 bit CRC is used or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Payload CRC Presence Indicator			ENUMERATED ( CRC Included, CRC Not Included, )	

#### 9.2.1.49A PICH Power

The *PICH Power* IE indicates a power level relative to the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell. If Transmit Diversity is applied to the PICH (resp. the MICH), the *PICH Power* IE indicates the power offset between the linear sum of the power for the PICH (resp. the MICH) on all branches and the [FDD - Primary CPICH power] [TDD - Primary CCPCH power] configured in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PICH Power			INTEGER (-10+5)	Unit: dB Range: -10 +5 dB Step: 1dB

#### 9.2.1.49B Power Local Cell Group ID

The Power Local Cell Group ID represents resources in the Node B which have been pooled from a DL power capability point of view.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Local Cell Group ID			Local Cell ID 9.2.1.38	

#### 9.2.1.49C Priority Queue ID

The Priority Queue ID provides the identity of the Priority Queue. The Priority Queue ID is unique across all MAC-d flows that are currently allocated for one Node B Communication Context or across all Common MAC flows within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Queue ID			INTEGER (07)	

#### 9.2.1.49D Process Memory Size

The *Process Memory Size* IE is the size of an HARQ process in the Node B expressed in bits. It provides the maximum number of soft channel bits in the virtual IR buffer [8] or [34].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Process Memory Size			ENUMERATED (	
			800, 1600, 2400, 3200,	
			4000, 4800, 5600, 6400,	
			7200, 8000, 8800, 9600,	
			10400, 11200, 12000,	
			12800, 13600, 14400,	
			15200, 16000, 17600,	
			19200, 20800, 22400,	
			24000, 25600, 27200,	
			28800, 30400, 32000,	
			36000, 40000, 44000,	
			48000, 52000, 56000,	
			60000, 64000, 68000,	
			72000, 76000, 80000,	
			88000, 96000, 104000,	
			112000, 120000, 128000,	
			136000, 144000, 152000,	
			160000, 176000, 192000,	
			208000, 224000, 240000,	
			256000, 272000, 288000,	
			304000,)	

### 9.2.1.50 Puncture Limit

The Puncture Limit limits the amount of puncturing that can be applied in order to minimise the number of dedicated physical channels.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Puncture Limit			INTEGER (015)	Unit: % Range: 40100 % Step: 4 % 100% means no puncturing [FDD - Value "0" is not applicable for E-DPCH.]

### 9.2.1.50A QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
QE-Selector			ENUMERATED (	
			Selected,	
			Non-Selected)	

### 9.2.1.51 Report Characteristics

The report characteristics define how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Report	М				-	
Characteristics						
>On Demand			NULL			
>Periodic						
>>Report Periodicity	M		9.2.1.51a	The frequency with which the Node B shall send measurement reports.	_	
>Event A						
>>Measurement Threshold	Μ		9.2.1.44	The threshold for which the Node B shall trigger a measurement report.	_	
>Measurement Hysteresis Time	0		9.2.1.41A		-	
>Event B						
>>Measurement Threshold	М		9.2.1.44	The threshold for which the Node B shall trigger a measurement report.	_	
>Measurement Hysteresis Time	0		9.2.1.41A		_	
>Event C						
>>Measurement Increase/Decrease Threshold	M		9.2.1.43		_	
>>Measurement Change Time	M		9.2.1.40B	The time the measurement entity shall rise on (in ms), in order to trigger a measurement report.	_	
>Event D						
>>Measurement Increase/Decrease Threshold	M		9.2.1.43		_	
>>Measurement Change Time	M		9.2.1.40B	The time the measurement entity shall fall (in ms), in order to trigger a measurement report.	_	
>Event E						
>>Measurement Threshold 1	M		Measurement Threshold 9.2.1.44		_	
>>Measurement Threshold 2	0		Measurement Threshold 9.2.1.44		-	
>Measurement Hysteresis Time	0		9.2.1.41A		-	
>>Report Periodicity	0		9.2.1.51a	The frequency with which the Node B shall send measurement reports.	-	
>Event F						
>>Measurement Threshold 1	M		Measurement Threshold 9.2.1.44		-	
>>Measurement Threshold 2	0		Measurement Threshold 9.2.1.44		-	
>Measurement Hysteresis Time	0		9.2.1.41A		-	
>>Report Periodicity	0		9.2.1.51a	The frequency with which the Node B shall send	_	

				measurement reports.		
>Additional Report Characteristics				See Note 1		
>>On Modification						
>>>On Modification		1			YES	reject
>>>Measurem ent Threshold	Μ		9.2.1.44		-	

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

#### 9.2.1.51a Report Periodicity

The Report Periodicity defines the frequency at which the Node B shall send measurement reports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Report Periodicity Scale	Μ			
>millisecond				
>>Report Periodicity Value	М		INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms
>minute				
>>Report Periodicity Value	Μ		INTEGER (160,)	Unit: min Range: 160 min Step: 1 min

#### 9.2.1.51A Requested Data Value

The *Requested Data Value* IE contains the relevant data concerning the ongoing information exchange. The *Requested Data Value* IE shall include at least one of the following IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DGPS Corrections	0		9.2.1.24B	•	_	-
GPS Navigation Model & Time Recovery	0		9.2.1.31B		_	
GPS Ionospheric Model	0		9.2.1.31C		_	
GPS UTC Model	0		9.2.1.31D		_	
GPS Almanac	0		9.2.1.31F		_	
GPS Real-Time Integrity	0		9.2.1.31E		-	
GPS RX Pos	0		9.2.1.31G		_	
GANSS Common Data		01			YES	ignore
>GANSS Ionospheric Model	0		9.2.1.91		_	
>GANSS RX Pos	0		9.2.1.95		-	
GANSS Generic Data		0 <max NoGAN SS&gt;</max 			GLOBAL	ignore
>GANSS ID	0		9.2.1.104		_	
>DGANSS Corrections	0		9.2.1.88		_	
>GANSS Navigation Model And Time Recovery	0		9.2.1.105		-	
>GANSS Time Model	0		9.2.1.96		_	
>GANSS UTC Model	0		9.2.1.97		_	
>GANSS Almanac	0		9.2.1.89		_	
>GANSS Real Time Integrity	0		9.2.1.94		_	
>GANSS Data Bit Assistance	0		9.2.1.103		-	

Range Bound	Explanation
maxNoGANSS	Maximum number of GANSS Systems

#### 9.2.1.51B Requested Data Value Information

The *Requested Data Value Information* IE provides information on whether or not the Requested Data Value is available in the message and also the Requested Data Value itself if available. In case of "Periodic" and "On Modification" reporting, "Information Not Available" shall be used when at least one part of the requested information was not available at the moment of initiating the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Availability Indicator	М			
>Information Available				
>>Requested Data Value	Μ		9.2.1.51A	
>Information Not Available			NULL	

#### 9.2.1.52 Resource Operational State

The Resource Operational State is used to indicate the current operational state of the associated resource following a Node B failure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Resource Operational State			ENUMERATED ( Enabled, Disabled)	When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to [6].

#### 9.2.1.52A Retention Priority

Void.

## 9.2.1.52B RLC Mode

The RLC Mode IE indicates the RLC Mode used for a Priority Queue.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RLC Mode			ENUMERATED( RLC-AM. RLC-	
			UM,)	

### 9.2.1.53 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL ID			INTEGER (031)	

#### 9.2.1.53a RNC-ld

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-Id			INTEGER (04095)	

#### 9.2.1.53b RTWP\* Reporting Indicator

The RTWP\* Reporting Indicator indicates if the RTWP\* measurement value shall be included together with the reported RSEPS measurement value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RTWP* Indicator			ENUMERATED ( RTWP* Reporting Required)	

### 9.2.1.53c RTWP\* for Cell Portion Reporting Indicator

The RTWP\* for Cell Portion Reporting Indicator indicates if the RTWP\* for Cell Portion measurement value shall be included together with the reported RSEPS measurement value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RTWP* per Cell Portion Indicator			ENUMERATED ( RTWP* for Cell Portion Reporting Required)	

### 9.2.1.53A SFN

System Frame Number of the cell, see ref. [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN			INTEGER (04095)	

## 9.2.1.53B Segment Type

Segment type as defined in [18].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Segment Type			ENUMERATED (	
			First segment,	
			First segment short,	
			Subsequent	
			segment,	
			Last segment,	
			Last segment short,	
			Complete SIB,	
			Complete SIB short,	
			)	

### 9.2.1.53C SFN-SFN Measurement Threshold Information

The SFN-SFN Measurement Threshold Information defines the related thresholds SFN-SFN Observed Time Difference measurements which shall trigger the Event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN-SFN Change Limit	0		INTEGER(1256)	Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit: chip Step: 1/16 chip
Predicted SFN-SFN Deviation Limit	0		INTEGER(1256)	Deviation of the predicated SFN-SFN from the latest measurement result, which shall trigger a new report. Unit: chip Step: 1/16 chip

## 9.2.1.53D SFN-SFN Measurement Time Stamp

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	М			
>FDD				
>>SFN	М		9.2.1.53A	Indicates the SFN of the reference cell at which the measurement has been performed.
>TDD				
>>SFN	М		9.2.1.53A	Indicates the SFN of the reference cell at which the measurement has been performed.
>>Time Slot	М		9.2.3.23	Indicates the Time Slot of the reference cell at which this measurement has been performed.

### 9.2.1.53E SFN-SFN Measurement Value Information

The *SFN-SFN Measurement Value Information* IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.

SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift         SFN-SFN Drift Rate Quality       O       INTEGER (0100)       Indicates the standard	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
>SFN-SFN Value       M       9.2.1.53F         >SFN-SFN Quality       O       INTEGER (0255)       Indicates the standard deviation (std) of the SFN-SFN Observed Time Difference measurements in 1/16 chip. SFN-SFN Quality = √E[(x-µ) <sup>2</sup> = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value, where x is the reported SFN-SFN Value and µ = E[X] is the expectation value of x.         >SFN-SFN Drift Rate       M       INTEGER (-100+100)       Indicates the SFN-SFN drift rate in 1/256 chip per second A positive value indicates that the Reference cell clock is running at a greater frequence than the measured neighbouring cell.         >SFN-SFN Drift Rate Quality       O       INTEGER (0100)       Indicates the standard	Cell SFN-SFN Observed Time Difference		MeasNCell		
>SFN-SFN Quality       O       INTEGER (0255)       Indicates the standard deviation (std) of the SFN-SF Observed Time Difference measurements in 1/16 chip. SFN-SFN Quality = √E[(x-µ) <sup>2</sup> = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value, where x is the reported SFN-SFN Value and µ = E[x] is the expectation value of x.         >SFN-SFN Drift Rate       M       INTEGER (-100+100)       Indicates the SFN-SFN drift rate in 1/256 chip per second A positive value indicates tha the Reference cell clock is running at a greater frequenc than the measured neighbouring cell.         >SFN-SFN Drift Rate Quality       O       INTEGER (0100)       Indicates the standard	>UC-Id	М		9.2.1.65B	
SFN-SFN Drift Rate       M       INTEGER       Indicates the SFN-SFN drift rate in 1/256 chip per second A positive value indicates tha the Reference cell clock is running at a greater frequence than the measured neighbouring cell.         >SFN-SFN Drift Rate Quality       O       INTEGER (0100)       Indicates the standard	>SFN-SFN Value	М		9.2.1.53F	
(-100+100)       rate in 1/256 chip per second         A positive value indicates that the Reference cell clock is running at a greater frequence than the measured neighbouring cell.         >SFN-SFN Drift Rate Quality       O         INTEGER (0100)       Indicates the standard	>SFN-SFN Quality	0		INTEGER (0255)	deviation (std) of the SFN-SFN Observed Time Difference measurements in 1/16 chip. SFN-SFN Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value and $\mu = E[x]$
	>SFN-SFN Drift Rate	М			Indicates the SFN-SFN drift rate in 1/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured
drift rate measurements in 1/256 chip per second. SFN- SFN Drift Rate Quality = $\sqrt{E[(\mu)^2]}$ = std of reported SFN-SF Drift Rate, where x is the reported SFN-SFN Drift Rate	>SFN-SFN Drift Rate Quality	0		INTEGER (0100)	Indicates the standard deviation (std) of the SFN-SFN drift rate measurements in 1/256 chip per second. SFN- SFN Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported SFN-SFN Drift Rate, where x is the reported SFN-SFN Drift Rate and $\mu = E[x]$ is the expectation
>SFN-SFN Measurement M 9.2.1.53D Time Stamp	Time Stamp	М		9.2.1.53D	
Unsuccessful Neighbouring       0 <maxno< td="">         Cell SFN-SFN Observed       MeasNCell         Time Difference       -1&gt;         Measurement Information       -1&gt;</maxno<>	Cell SFN-SFN Observed Time Difference		MeasNCell		
>UC-Id M 9.2.1.65B	>UC-Id	Μ		9.2.1.65B	

Range Bound	Explanation
maxnoMeasNCell	Maximum number of neighbouring cells that can be measured on

# 9.2.1.53F SFN-SFN Value

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	М			
>FDD				
>>SFN-SFN	М		INTEGER (0614399)	According to mapping in [22].
>TDD				1.28 Mcps and 3.84 Mcps only
>>SFN-SFN	М		INTEGER (040961)	According to mapping in [23].
>TDD 7.68 Mcps				
>>SFN-SFN	М		INTEGER (081923)	According to mapping in [23].

## 9.2.1.53G RL Specific DCH Information

The *RL Specific DCH Information* IE provides RL specific DCH Information for DCHs. In the case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific DCH Information* IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
RL Specific DCH Information		1 <maxno ofDCHs&gt;</maxno 			-	
>DCH ID	М		9.2.1.20		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Bearer Not Requested Indicator	0		9.2.2.4G	FDD Only	YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

#### 9.2.1.53H Scheduling Priority Indicator

Indicates the relative priority of the HS-DSCH [FDD - or E-DCH data frame]. Used by the Node B when scheduling HS-DSCH[FDD - or E-DCH].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Priority Indicator			INTEGER (015)	Relative priority of the HS- DSCH [FDD - or E-DCH data frame]: "0" =Lowest Priority  "15" =Highest Priority

#### 9.2.1.53I SID

The *SID* IE provides the identity of the Size Index.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SID			INTEGER (07)	

#### 9.2.1.54 SIB Deletion Indicator

Void.

#### 9.2.1.55 SIB Originator

Indicates if the Node B shall fill in the SIB information or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIB Originator			ENUMERATED ( Node B, CRNC, )	

#### 9.2.1.55A Signalling Bearer Request Indicator

The *Signalling Bearer Request Indicator* IE indicates if a new signalling bearer needs to be established for the control of Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Signalling Bearer Request				
Indicator			(Bearer Requested)	

#### 9.2.1.56 Shutdown Timer

The shutdown timer shall indicate the length of time available to the CRNC to perform the block of a resource when a Normal priority block is requested.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Shutdown Timer			INTEGER (13600)	Unit: second

#### 9.2.1.56a T1

The T1 IE is used as described in ref [32] subclause 11.6.2.3.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Τ1			ENUMERATED (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 200, 300, 400,)	Unit: ms Node B may use this value to stop the re-transmission of the corresponding MAC-hs PDU.

## 9.2.1.56A T\_RLFAILURE

The Radio Link Failure procedure shall be triggered after a period of time T\_RLFAILURE has elapsed with a persisting out-of-sync indication (see also ref. [10] and [21]).

Information Element/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T_RLFAILURE			INTEGER (0255)	Unit: second
				Range: 0 25.5 s
				Step: 0.1 s

#### 9.2.1.56B Start Of Audit Sequence Indicator

Indicates if the AUDIT REQUEST message initiates a new audit sequence or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Start Of Audit Sequence Indicator			ENUMERATED ( Start Of Audit Sequence, Not Start Of Audit Sequence)	

#### 9.2.1.56C TFCI2 Bearer Request Indicator

Void.

#### 9.2.1.57 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [TDD - If it is present in the timeslot, it will be mapped to the channelisation code defined by [19].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI presence			ENUMERATED (	
			Present,	
			Not Present)	

### 9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE TFCS Values	Μ			
>Always Used				This choice is always made.
>>TFCS		1 <maxno ofTFCs&gt;</maxno 		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	Μ		9.2.1.18A	
>>>CHOICE Gain	C-			
Factors	PhysChan			
>>>Signalled Gain Factors				
>>>>CHOICE Mode	Μ			
>>>>FDD				
>>>>>Gain Factor β <sub>C</sub>	M		INTEGER (015)	For UL DPCCH or control part of PRACH; mapping in accordance to [9]
>>>>>Gain Factor β <sub>D</sub>	М		INTEGER (015)	For UL DPDCH or data part of PRACH: mapping in accordance to [9]
>>>>TDD				
>>>>>Gain Factor β	Μ		iNTEGER (015)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>Reference TFC nr	0		INTEGER (03)	If this TFC is a reference TFC, this IE indicates the reference number.
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER (03)	Indicates the reference TFC to be used to calculate the gain factors for this TFC.
>Not Used				This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH
	channel .

Range Bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations

#### 9.2.1.58A TNL QoS

This IE indicates the TNL QoS characteristics of the transport bearer for the uplink data traffic.

When the DS Field IE is used, the value of this IE is configurable by the operator.

When the *Generic Traffic Category* IE is used, generic traffic categories are implementation-specific (e.g. they may be determined by the sender from the application parameters). The value assigned to each of these categories and sent in the *Generic Traffic Category* IE is configurable by the operator, as well as the mapping of this value to DS field [35] at the Node B side.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE TNL QoS type	М			
>DS Field				
>>DS Field	М		BIT STRING (8)	DS Field as defined in [35]. Typically used when the Node B and its CRNC are in the same DS domain as defined in [36].
>Generic Traffic Category				
>>Generic Traffic Category	М		BIT STRING (8)	

## 9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

[TDD - The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the  $2^{nd}$  Interleaving Mode IE.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtf count&gt;</maxtf 		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C-Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	М			
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynami c	1 <maxtt lcount&gt;</maxtt 		
>>>>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80,)	Unit: ms
Semi-Static Transport Format Information		1		
>Transmission Time Interval	Μ		ENUMERATED (10, 20, 40, 80, dynamic,,5)	Unit: ms; Value "dynamic' for TDD only; Value "5' for LCR TDD only; For FDD DCH, the value "80" is applicable only when <i>DL</i> <i>DPCH Slot Format</i> IE indicates a slot format with SF=512.
>Type Of Channel Coding	М		ENUMERATED ( No codingTDD, Convolutional, Turbo, )	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C-Coding		ENUMERATED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC Size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	М		ENUMERATED ( Frame related, Timeslot related, )	

Condition	Explanation
Blocks	The IE shall be present if the Number Of Transport Blocks IE is set to
	a value greater than 0.
Coding	The IE shall be present if the Type Of Channel Coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-Static Transport Format Information IE is set to "dynamic'.

Range Bound	Explanation
maxTFcount	Maximum number of different Transport Formats that can be included
	in the Transport Format Set for one transport channel
maxRM	Maximum number that could be set as rate matching attribute for a transport channel
maxTTlcount	The amount of different TTIs that are possible for that Transport Format

## 9.2.1.60 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWE			INTEGER (02559)	Unit: ms

### 9.2.1.61 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ToAWS			INTEGER (01279)	Unit: ms

### 9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B Control Port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Transaction ID Length				The Transaction ID shall be interpreted for its integer value, not for the type of encoding ("short" or "long").
>Short				
>>Transaction ID Value	М		INTEGER (0127)	
>Long				
>>Transaction ID Value	М		INTEGER (032767)	

#### 9.2.1.62A Transport Bearer Request Indicator

Indicates whether a new transport bearer needs to be established for carrying the concerned transport channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Request Indicator			ENUMERATED ( Bearer Requested, Bearer Not Requested, )	

#### 9.2.1.63 Transport Layer Address

In case of transport bearer establishment with ALCAP [2][31], this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to [2][31].

In order to allow transport bearer establishment without ALCAP, this IE contains the address of the transport bearer to be used for the user plane transport.

For details on the Transport Address used see ref. [2][31].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Layer Address			BIT STRING (1160,	
			)	

#### 9.2.1.64 TSTD Indicator

Indicates if TSTD shall be active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSTD Indicator			ENUMERATED (	
			active,	
			inactive)	

### 9.2.1.64A T<sub>UTRAN-GPS</sub> Measurement Value Information

The T<sub>UTRAN-GPS</sub> *Measurement Value Information* IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frames for UE Positioning measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tutran-gps		1		Indicates the UTRAN GPS Timing of Cell Frames forUE Positioning. According to mapping in [22]. Significant values range from 0 to 37158911999999.
>MS	Μ		INTEGER (016383)	Most Significant Part
>LS	М		INTEGER (04294967295)	Least Significant Part
T <sub>UTRAN-GPS</sub> Quality	0		INTEGER (0255)	Indicates the standard deviation (std) of the T <sub>UTRAN-</sub> <sub>GPS</sub> measurements in 1/16 chip. T <sub>UTRAN-GPS</sub> Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Value, where x is the reported T <sub>UTRAN-GPS</sub> Value and $\mu = E[x]$ is the expectation value of x.
T <sub>UTRAN-GPS</sub> Drift Rate	M		INTEGER (-50+50)	Indicates the T <sub>UTRAN-GPS</sub> drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock.
T <sub>UTRAN-GPS</sub> Drift Rate Quality	0		INTEGER (050)	Indicates the standard deviation (std) of the T <sub>UTRAN-</sub> <sub>GPS</sub> drift rate measurements in 1/256 chip per second. T <sub>UTRAN-GPS</sub> Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN-GPS</sub> Drift Rate, where x is the reported T <sub>UTRAN-GPS</sub> Drift Rate and $\mu$ = E[x] is the expectation value of x.

## 9.2.1.64B T<sub>UTRAN-GPS</sub> Measurement Threshold Information

The  $T_{UTRAN-GPS}$  Measurement Threshold Information defines the related thresholds for UTRAN GPS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Change Limit	0		INTEGER (1256)	Change of T <sub>UTRAN-GPS</sub> value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted T <sub>UTRAN-GPS</sub> Deviation Limit	0		INTEGER (1256)	Deviation of the predicated T <sub>UTRAN-GPS</sub> from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

## 9.2.1.64C T<sub>UTRAN-GPS</sub> Accuracy Class

The  $T_{UTRAN-GPS}$  Accuracy Class IE indicates the accuracy class of the UTRAN GPS Timing of Cell Frames for UE Positioning measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Accuracy Class			ENUMERATED ( Accuracy Class A, Accuracy Class B, Accuracy Class C, )	More information about T <sub>UTRAN-</sub> <sub>GPS</sub> Measurement Accuracy Class is included in [22] and [23].

#### 9.2.1.65 UARFCN

Designates the carrier frequency.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER (016383,)	As defined in subclause 5.4.3 in [14] and [15]

#### 9.2.1.65A UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a Local Cell or a Local Cell Group.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Capacity Credit			INTEGER (065535)	

#### 9.2.1.65B UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
RNC-Id	М		9.2.1.53a	If the Extended RNC-ID IE is included in the UC- Id IE, the RNC-Id IE shall be ignored.	_	-
C-Id	Μ		9.2.1.9		-	-
Extended RNC-ID	0		9.2.1.65C	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

#### 9.2.1.65C Extended RNC-ID

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended RNC-ID			INTEGER(409665535)	Note: Application of the <i>Extended RNC-ID</i> IE to very large networks is FFS.

#### 9.2.1.66 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL FP Mode			ENUMERATED( Normal, Silent, …)	

#### 9.2.1.67 UL interference level

Void.

### 9.2.1.67A UL SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL SIR			INTEGER (-82173)	Value = UL SIR/10 Unit: dB Range: -8.2 +17.3 dB Step: 0.1 dB

### 9.2.1.68 Unidirectional DCH Indicator

The Unidirectional DCH Indicator IE indicates that the DCH is unidirectional.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Unidirectional DCH Indicator			ENUMERATED	
			(Downlink DCH only,	
			Uplink DCH only)	

### 9.2.1.69 E-DCH MAC-d Flow Multiplexing List

The E-DCH MAC-d Flow Multiplexing List indicates which E-DCH MAC-d flows are allowed to be multiplexed within a MAC-e PDU with the MAC-d flow it is associated to. If the E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow it indicates that E-DCH MAC-d PDUs of this E-DCH MAC-d flow are the first E-DCH MAC-d PDU in the MAC-e PDU. If an E-DCH MAC-d Flow Multiplexing List was already received within a previous Radio Link related procedure and no E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow, the Node B shall continue to use the previously received one. If no E-DCH MAC-d Flow Multiplexing List was ever received for an E-DCH MAC-d flow no restrictions shall be assumed for the related E-DCH MAC-d flow for multiplexing E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Multiplexing List			BIT STRING (8)	The first Bit corresponds to E-DCH MAC-d flow 0, the second bit corresponds to E-DCH MAC-d flow 1, etc.

## 9.2.1.70 E-DCH Capability

This parameter defines the E-DCH capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Capability			ENUMERATED (E-	
			DCH Capable, E-	
			DCH non Capable)	

## 9.2.1.71 E-DCH Logical Channel Information

The *E-DCH Logical Channel Information* IE is used for the establishment of E-DCH Logical Channels.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Logical Channel Information		1 <maxno oflogicalch annels&gt;</maxno 				
>Logical Channel ID	М		9.2.1.80			
>Scheduling Priority Indicator	М		9.2.1.53H			
>Scheduling Information	М		9.2.1.84			
>MAC-es Guaranteed Bit Rate	0		9.2.1.82			
>E-DCH DDI Value	Μ		9.2.1.76	If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved		
>MAC-d PDU Size List		1 <maxno ofMACdP DUSize&gt;</maxno 				
>>MAC-d PDU Size	М		9.2.1.38A			
>MAC-es Maximum Bit Rate LCR	0		9.2.3.72	1.28Mcps TDD only	YES	ignore

Range Bound	Explanation
Maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

## 9.2.1.72 E-DCH Logical Channel To Modify

The E-DCH Logical Channel To Modify IE is used for the reconfiguration of E-DCH Logical Channels.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Logical Channel Information		1 <maxno oflogicalch annels&gt;</maxno 				
>Logical Channel ID	Μ		9.2.1.80			
>Scheduling Priority Indicator	0		9.2.1.53H			
>Scheduling Information	0		9.2.1.84			
>MAC-es Guaranteed Bit Rate	0		9.2.1.82			
>E-DCH DDI Value	0		9.2.1.76	If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved		
>MAC-d PDU Size List		0 <maxno ofMACdP DUSize&gt;</maxno 				
>>MAC-d PDU Size	Μ		9.2.1.38A			
>MAC-es Maximum Bit Rate LCR	0		9.2.3.72	1.28Mcps TDD only	YES	ignore

Range Bound	Explanation
maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

## 9.2.1.73 E-DCH MAC-d Flows To Delete

The E-DCH MAC-d Flows To Delete IE is used for the removal of E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flows To Delete		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.1.74	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

### 9.2.1.74 E-DCH MAC-d Flow ID

The E-DCH MAC-d Flow ID is the unique identifier for one MAC-d flow on E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow ID			INTEGER (0maxnoofEDCHM ACdFlows - 1)	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

#### 9.2.1.75 E-RNTI

The E-RNTI is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. [38].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RNTI			INTEGER (065535)	

### 9.2.1.76 E-DCH DDI Value

The E-DCH DDI Value is the Data Description Indicator value identifying a unique combination of E-DCH MAC-d Flow ID and MAC-d PDU Size.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH DDI Value			INTEGER	
			(062)	

### 9.2.1.77 E-DCH Provided Bit Rate Value

The E-DCH Provided Bit Rate Value IE indicates the E-DCH Provided Bit Rate as defined in [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Provided Bit Rate Value			INTEGER (02^24-1,, 2^24256,000,000)	Expressed in bit/s.

#### 9.2.1.78 E-DCH Provided Bit Rate Value Information

The *E-DCH Provided Bit Rate Value Information* IE reports the *E-DCH Provided Bit Rate Value* IE for each priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Provided Bit Rate Value Information		1 <maxno ofPriorityCl</maxno 		
>Scheduling Priority Indicator	Μ	asses>	9.2.1.53H	
>E-DCH Provided Bit Rate Value	М		9.2.1.77	

Range Bound	Explanation
maxNoofPriorityClasses	Maximum number of E-DCH Scheduling Priorities

#### 9.2.1.79 E-DCH Processing Overload Level

The *E-DCH Processing Overload Level* IE defines the threshold that determines when the Node B shall indicate processing issue problems to the RNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
E-DCH Processing Overload Level			INTEGER (010,)	Number of consecutive TTIs. The value "0" is a special value that means infinity, i.e. when this value is used, the Node B shall never indicate processing issue to the RNC.

#### 9.2.1.80 Logical channel ID

The Logical Channel ID IE is used to identify a E-DCH logical channel in Sheduling Information that is sent over Uu.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Logical Channel ID			INTEGER (115)	

#### 9.2.1.81 Maximum Number Of Retransmissions For E-DCH

The *Maximum Number Of Retransmissions For E-DCH* IE specifies the upper boundary for retransmissions for a single MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number Of			INTEGER	
Retransmissions For E-DCH			(015)	

#### 9.2.1.82 MAC-es Guaranteed Bit Rate

The *MAC-es Guaranteed Bit Rate* IE indicates the guaranteed number of bits per second to be delivered over the air interface under normal operating conditions (provided there is data to deliver) for which the Node B shall provide sufficient UL resources. If the *MAC-es Guaranteed Bit Rate* IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-es Guaranteed Bit Rate			INTEGER (02^24-	Unit: bit/s
			1,,	
			2^24256,000,000)	

#### 9.2.1.83 MAC-e Reset Indicator

Indicates the MAC-e Reset is performed in UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-e Reset Indicator			ENUMERATED (MAC-e Reset)	

#### 9.2.1.84 Scheduling Information

The *Scheduling Information* IE indicates whether the scheduling information is included for the E-DCH logical channel or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Information			ENUMERATED (	
			Included,	
			Not Included)	

## 9.2.1.85 E-DCH Power Offset for Scheduling Info

The *E-DCH Power Offset for Scheduling Info* is used to calculate the [FDD - E-DPDCH][TDD - E-PUCH] power for transmision of scheduling information without any MAC-d PDUs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Power Offset for			INTEGER (06)	Unit: dB
Scheduling Info				Step: 1 dB

#### 9.2.1.86 MBMS Capability

This parameter defines the MBMS capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBMS Capability			ENUMERATED (MBMS Capable, MBMS non Capable)	

#### 9.2.1.87 Modulation

Indicates the modulation to be used for a S-CCPCH CCTrCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Modulation			ENUMERATED ( QPSK, 16QAM,)	

## 9.2.1.88 DGANSS Corrections

This IE contains DGANSS corrections.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
DGANSS Reference Time	М		INTEGER(0. .3570 by step of 30)	Seconds. Time in GNSS system time (modulo 3600 s) when the DGANSS corrections were calculated
DGANSS Information		1 to <maxsgnt ype&gt;</maxsgnt 		
>GANSS Signal ID	0		9.2.1.106	

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>Status/Health	M		ENUMERAT ED(UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.2, UDRE scale 0.1, no data, invalid data)	
>DGANSS Signal Information	C- Status/Hea Ith	1 to <maxgan SSSat&gt;</maxgan 		If the Cipher information is included these fields are ciphered.
>>Sat ID	Μ		INTEGER(0 63)	Identifies the satellite and is equal to (SV ID No - 1)
>>IOD	Μ		BIT STRING(10)	
>>UDRE	M		ENUMERAT ED(UDRE ≤ 1.0 m, 1.0m < UDRE ≤ 4.0m, 4.0m < UDRE ≤ 8.0m, 8.0m < UDRE)	The value in this field shall be multiplied by the UDRE Scale Factor in the IE Status/Health to determine the final UDRE estimate for the particular satellite.
>>PRC	Μ		INTEGER(- 20472047)	Scaling factor 0.32 meters
>>RRC	Μ		INTEGER(- 127127)	Scaling factor 0.032 meters/sec

Condition	Explanation
Status/Health	This IE shall be present if the Status/Health IE value
	is not equal to "no data" or "invalid data".

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxSgnType	Maximum number of signals for which data is included in the IE

## 9.2.1.89 GANSS Almanac

This IE contains a reduced-precision subset of the ephemeris and clock correction parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Week Number	М		INTEGER(0. .255)	Almanac reference week , number of weeks since the beginning of GANSS specific system time (mod 256)
CHOICE Almanac Model	М			
>Keplerian Parameters				471
>>T <sub>oa</sub>	M		INTEGER(0. .255)	Scaling factor 2 <sup>12</sup> s Reference time of almanac within week in GANSS TOD time base
>>IOD <sub>a</sub>	М		INTEGER(0. .3)	Issue-Of –Data, common to all satellites
>>Satellite Information KP		1 to <maxgan SSSatAlm anac&gt;</maxgan 		Almanacs are in the order of the SV IDs, the smallest ID first.
>>>Sat ID	M		INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No - 1)
>>>e	M		BIT STRING(11)	Eccentricity, dimensionless [39]
>>>ði	M		BIT STRING(11)	semi-circles [39]
>>>OMEGADOT	М		BIT STRING(11)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]
>>>SV Health KP	М		BIT STRING(4)	dimensionless
>>>delta A <sup>1/2</sup>	М		BIT STRING(17)	Semi-Major Axis delta (meters) <sup>1/2</sup> [39]
>>>OMEGA <sub>0</sub>	М		BIT STRING(16)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]
>>>M0	М		BIT STRING(16)	Mean Anomaly at Reference Time (semi-circles) [39]
>>>0)	М		BIT STRING(16)	Argument of Perigee (semi- circles) [39]
>>>af <sub>0</sub>	М		BIT STRING(14)	Seconds [39]
>>>af <sub>1</sub>	М		BIT STRING(11)	sec/sec [39]

Range Bound	Explanation
maxGANSSSatAlmanac	Maximum number of satellites for which data is included in the IE

## 9.2.1.90 GANSS Clock Model

The IE contains fields needed to model the GANSS clock parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Satellite Clock Model		1 to <maxgan SSClockM od&gt;</maxgan 		There may be more than one clock model included if defined in SIS ICD (e.g. two for Galileo)
>t <sub>oc</sub>	М		BIT STRING(14)	defined in [39]
>a <sub>i2</sub>	М		BIT STRING(12)	defined in [39]
>a <sub>i1</sub>	М		BIT STRING(18)	defined in [39]
>a <sub>i0</sub>	М		BIT STRING(28)	defined in [39]
>T <sub>GD</sub>	0		BIT STRING(10)	defined in [39]
>Model ID	0		INTEGER(0. .1,)	Coded as defined in [18].

Range bound	Explanation
maxGANSSClockMod	Maximum number of satellite clock models for which data is included
	in the IE.

## 9.2.1.91 GANSS Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
a <sub>i0</sub>	М		BIT STRING(12)	This parameter is used as defined in [39]
a <sub>i1</sub>	М		BIT STRING(12)	This parameter is used as defined in [39]
a <sub>i2</sub>	M		BIT STRING(12)	This parameter is used as defined in [39]
GANSS Ionosphere Regional Storm Flags		01		
>Storm Flag 1	M		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 2	М		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 3	M		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 4	М		BOOLEAN	This parameter is used as defined in [39]
>Storm Flag 5	М		BOOLEAN	This parameter is used as defined in [39]

## 9.2.1.92 GANSS Navigation Model

Void.

## 9.2.1.93 GANSS Orbit Model

This IE contains information for GANSS orbit model parameters.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
---------------	----------	-------	--------------------------	-----------------------

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
CHOICE Orbit Model	М			
>Keplerian Parameters				
>>t <sub>oe</sub>	М		BIT STRING(14)	Time-of-Ephemeris in seconds, scale factor 60 [39]
>>0)	М		BIT STRING(32)	Argument of Perigee (semi- circles) [39]
>>∆n	М		BIT STRING(16)	Mean Motion Difference From Computed Value (semi- circles/sec) [39]
>>M0	М		BIT STRING(32)	Mean Anomaly at Reference Time (semi-circles) [39]
>>OMEGAdot	М		BIT STRING(24)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]
>>e	Μ		BIT STRING(32)	Eccentricity, scale factor 2 <sup>-33</sup> [39]
>>ldot	М		BIT STRING(14)	Rate of Inclination Angle (semi-circles/sec) [39]
>>sqrtA	М		BIT STRING(32)	Semi-Major Axis in (meters) <sup>1/2</sup> , scale factor 2 <sup>-19</sup> [39]
>>i <sub>0</sub>	М		BIT STRING(32)	Inclination Angle at Reference Time (semi-circles) [39]
>>OMEGA0	М		BIT STRING(32)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]
>>C <sub>rs</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters) [39]
>>C <sub>is</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians) [39]
>>C <sub>us</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Argument Of Latitude (radians) [39]
>>C <sub>rc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term to the Orbit Radius (meters) [39]
>>C <sub>ic</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Angle Of Inclination (radians) [39]
>>C <sub>uc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Argument Of Latitude (radians) [39]

## 9.2.1.94 GANSS Real Time Integrity

This IE contains parameters that describe the real-time status of the GANSS constellation.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
Satellite Information		1 to <maxgan SSSat&gt;</maxgan 		
>Bad GANSS Sat ID	Μ		INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No - 1).
>Bad GANSS Signal ID	0		BIT STRING(8)	Coded as defined in [18].

Range Bound	Explanation	
maxGANSSSat	Maximum number of satellites for which data is included in the IE	

#### 9.2.1.95 GANSS Receiver Geographical Position (GANSS RX Pos)

The *GANSS Receiver Geographical Position* IE is used to identify the geographical coordinates of a GANSS receiver relevant for a certain Information Exchange Object.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERATED( North, South)	
Degrees of Latitude	М		INTEGER (02 <sup>31</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{31} X / 90 < N+1$ X being the latitude in degree $(0^{\circ}90^{\circ})$
Degrees of Longitude	М		INTEGER (-2 <sup>31</sup> 2 <sup>31</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{32} X / 360 < N+1$ X being the longitude in degree (-180°+180°)
Direction of Altitude	М		ENUMERATED( Height, Depth)	
Altitude	М		INTEGER (02 <sup>15</sup> -1)	The relation between the value (N) and the altitude (a) in meters it describes is $N \le a$ <n+1, except="" for="" n="2&lt;sup">15-1 for which the range is extended to include all greater values of (a).</n+1,>

#### 9.2.1.96 GANSS Time Model

The *GANSS Time Model* IE contains a set of parameters needed to relate GANSS time to selected time reference indicated by GNSS\_TO\_ID.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Time Model Reference Time	М		INTEGER(0. . 37799)	GANSS reference time (modulo 1 week) in seconds. The scale factor is 2 <sup>4</sup>
T <sub>A0</sub>	М		INTEGER(- 2147483648. .2147483647 )	Seconds, scale factor 2 <sup>-35</sup>
T <sub>A1</sub>	0		INTEGER(- 838860883 88607)	sec/sec, scale factor 2 <sup>-51</sup>
T <sub>A2</sub>	0		INTEGER(- 6463)	sec/sec <sup>2</sup> , scale factor 2 <sup>-68</sup>
GNSS_TO_ID	М		ENUMERAT ED(GPS,)	
Week Number	0		INTEGER(0. .8191)	Reference week of GANSS Time Model

## 9.2.1.97 GANSS UTC Model

The *GANSS UTC Model* IE contains a set of parameters needed to relate GANSS time to Universal Time Coordinate (UTC).

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
A <sub>1</sub>	Μ		BIT STRING(24)	sec/sec [39]
A <sub>0</sub>	М		BIT STRING(32)	seconds [39]
t <sub>ot</sub>	М		BIT STRING(8)	seconds [39]
WNt	М		BIT STRING(8)	weeks [39]
$\Delta t_{LS}$	М		BIT STRING(8)	seconds [39]
WN <sub>LSF</sub>	Μ		BIT STRING(8)	weeks [39]
DN	Μ		BIT STRING(8)	days [39]
$\Delta t_{LSF}$	М		BIT STRING(8)	seconds [39]

## 9.2.1.98 T<sub>UTRAN-GANSS</sub> Accuracy Class

The  $T_{UTRAN-GANSS}Accuracy Class$  IE indicates the accuracy class of the UTRAN GANSS Timing of Cell Frames for UE Positioning measurement.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GANSS</sub> Accuracy Class			ENUMERATED ( Accuracy Class A, Accuracy Class B, Accuracy Class C, )	More information about T <sub>UTRAN-</sub> GANSS Measurement Accuracy Class is included in [22] and [23].

### 9.2.1.99 T<sub>UTRAN-GANSS</sub> Measurement Threshold Information

The  $T_{UTRAN-GANSS}$  Measurement Threshold Information IE defines the related thresholds for UTRAN GANSS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GANSS</sub> Change Limit	0		INTEGER (1256)	Change of $T_{UTRAN-GANSS}$ value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted T <sub>UTRAN-GANSS</sub> Deviation Limit	0		INTEGER (1256)	Deviation of the predicated $T_{UTRAN-GANSS}$ from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

## 9.2.1.100 T<sub>UTRAN-GANSS</sub> Measurement Value Information

The T<sub>UTRAN-GANSS</sub> *Measurement Value Information* IE indicates the measurement results related to the UTRAN GANSS Timing of Cell Frames for UE Positioning measurements.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tutran-ganss	M			Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in [23]; significant values range from 0 to 37158911999999.
>MS	Μ		INTEGER(0. .16383)	Most Significant Part
>LS	М		INTEGER(0. .4294967295 )	Least Significant Part
T <sub>UTRAN-GANSS</sub> Quality	0		ÎNTEGER(0. .255)	Indicates the standard deviation (std) of the T <sub>UTRAN</sub> - GANSS measurements in 1/16 chip. T <sub>UTRAN</sub> - GANSS Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN</sub> - GANSS Value, where x is the reported T <sub>UTRAN</sub> -GANSS Value and $\mu = E[x]$ is the expectation value of x.
T <sub>UTRAN-GANSS</sub> Drift Rate	М		INTEGER(- 5050)	Indicates the T <sub>UTRAN</sub> - GANSS drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GANSS clock.
T <sub>UTRAN-GANSS</sub> Drift Rate Quality	0		INTEGER(0. .50)	Indicates the standard deviation (std) of the T <sub>UTRAN</sub> - GANSS drift rate measurements in 1/256 chip per second. T <sub>UTRAN</sub> - GANSS Drift Rate Quality = $\sqrt{E[(x-\mu)^2]}$ = std of reported T <sub>UTRAN</sub> - GANSS Drift Rate, where x is the reported T <sub>UTRAN</sub> - GANSS Drift Rate and $\mu = E[x]$ is the expectation value of x.

## 9.2.1.101 GANSS Reference Time

Void.

# 9.2.1.102 HARQ Memory Partitioning

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE HARQ Memory Partitioning		1			_	
>Implicit						
>>Number of Processes	M		INTEGER (18,12,1 4,16)	For HARQ process IDs going from 0 to "Number of Processes" – 1 the Total number of soft channel bits [33] is partitioned equally between all HARQ processes according to the rules in [18].	_	
>Explicit						
>>HARQ Memory Partitioning Infomation		1 <maxno ofHARQpr ocesses&gt;</maxno 		The first instance of the parameter corresponds to HARQ process with identifier 0, the second instance to HARQ process with identifier 1, and so on.	_	
>>>Process Memory Size	М		9.2.1.49D	See [18]	_	
>>HARQ Memory Partitioning Information Extension For MIMO		0, 4, 6 or 8		FDD only The 1 <sup>st</sup> instance corresponds to HARQ process with identifier set to 'maxnoofHARQpr ocesses', the 2 <sup>nd</sup> instance to HARQ process with identifier set to 'maxnoofHARQpr ocesses+1', and so on.	GLOBAL	ignore
>>>Process Memory Size	М		9.2.1.49D	See [18]	_	

Range Bound	Explanation
MaxnoofHARQprocesses	Maximum number of HARQ processes for one UE [FDD - per stream (the maximum number of HARQ processes per UE is 2 * MaxnoofHARQprocesses in dual stream transmission mode)]

## 9.2.1.103 GANSS Data Bit Assistance

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS TOD	Μ		INTEGER(059,)	Refererence time (modulo 1 minute) of the first bit of the data in <i>Data Bits</i> IE, in seconds.
Data Bit Assistance		1 <maxgans< td=""><td></td><td></td></maxgans<>		
List		SSat>		
>Sat ID	М		INTEGER(063)	Identifies the satellite and is equal to (SV ID No - 1)
>Data Bit Assistance		1 <maxsgnty< td=""><td></td><td></td></maxsgnty<>		
Sgn List		pe>		
>>GANSS Signal ID	Μ		9.2.1.106	
>>Data Bits	М		BIT STRING(11024)	Raw data bits as transmitted from a specific satellite at the time indicated by GANSS_TOD.

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE
maxSgnType	Maximum number of GANSS signals included in the IE

#### 9.2.1.104 GANSS ID

This IE defines a particular GANSS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS ID	Μ		INTEGER(07 ,)	Defines the GANSS and is coded as defined in [18]. All values are reserved in this version of the protocol.

## 9.2.1.105 GANSS Navigation Model And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Transmission Time	М		9.2.1.107	GANSS Time when the Navigation model has been retrieved
Non-Broadcast Indication	0		ENUMERAT ED(true)	If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1
Satellite Information		1 to <maxgan SSSat&gt;</maxgan 		
>Sat ID	М		INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No - 1).
>SV Health	М		BIT STRING(5)	Coded as defined in [39]
>IOD	М		BIT STRING(10)	
>GANSS Clock Model	М		9.2.1.90	
>GANSS Orbit Model	М		9.2.1.93	

Condition	Explanation
Orbit model	The IE shall be present if the GANSS Orbit Model IE
	indicates 'Keplerian Parameters'.

Range bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the IE.

NOTE 1 : The Non-Broadcast Indication allows to inform that the navigation model is not bit-to-bit the one broadcast by the satellite. If it is set to 1, the UE is informed that techniques such as data wiping off applied to the navigation model may not work for instance.

#### 9.2.1.106 GANSS Signal ID

This IE defines a specific signal within a particular GANSS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS Signal ID	М		INTEGER(07,)	Coded as defined in [18].

#### 9.2.1.107 GANSS Transmission Time

This IE indicates the GANSS Transmission Time

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
GANSS Day	0		INTEGER(0 8191)	The sequential number of days from the origin of the GNSS system time (indicated by the GANSS_ID given in the <i>Requested Data Value</i> IE) modulo 8192 days (about 22 years).
GANSS TOD	М		INTEGER(0 86399)	GANSS Time of Day in seconds

#### 9.2.1.108 IP Multicast Indication

The *IP Multicast Indication* IE indicates the IP multicast group information dedicated to an MBMS service and the CFN Offset, defined as the offset between MFN and CFN for a FACH. When Node B receives such an indication, if supported, it may join the corresponding IP multicast group. When Node B receives data frame from this IP multicast group, it shall consider the value of the CFN field in the data frame as MFN and calculate the actual CFN for the concerned FACH according to following equation:

 $CFN = (MFN - CFN \text{ Offset}) \mod 256.$ 

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Layer Address	М		9.2.1.63	An MBMS service corresponds to a dedicated IP multicast address.
Binding ID	М		9.2.1.4	Indicating multicast port.
CFN Offset	М		INTEGER (0255)	

#### 9.2.1.109 IP Multicast Data Bearer Indication

The *IP Multicast Data Bearer Indication* IE indicates whether the Node B is ready for receiving concerned MBMS service data through IP multicast transport bearer.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP Multicast Data Bearer Indication			BOOLEAN	True: IP multicast data bearer is used. False: IP multicast data bearer is not used.

## 9.2.2 FDD specific parameters

#### 9.2.2.a ACK-NACK Repetition Factor

The ACK-NACK Repetiton Factor IE indicates the number of consecutive repetitions of the ACK and NACK.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ACK-NACK Repetition Factor			INTEGER (14,)	Step: 1

#### 9.2.2.b ACK Power Offset

The ACK Power Offset IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ ACK information and the associated DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
ACK Power Offset			INTEGER (08,)	According to mapping in ref. [9] subclause 4.2.1.

### 9.2.2.A Active Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence activation. For details see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CM Configuration Change CFN	Μ		CFN 9.2.1.7	
Transmission Gap Pattern Sequence Status		0 <maxt GPS&gt;</maxt 		
>TGPS Identifier	М		INTEGER (1maxTGPS)	If the group is not present, none of the pattern sequences are activated. References an already defined sequence.
>TGPRC	М		INTEGER (0511)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. "0"=Infinity
>TGCFN	М		CFN 9.2.1.7	Connection Frame Number of the first frame of the first pattern 1 within the Transmission Gap Pattern Sequence.

Range Bound	Explanation
maxTGPS	Maximum number of active pattern sequences. Value 6.

#### 9.2.2.B Adjustment Period

The Adjustment Period IE defines the period to be used for power balancing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Adjustment Period			INTEGER (1256)	Unit: Frames

#### 9.2.2.C Adjustment Ratio

The Adjustment Ratio IE (Radj) defines the convergence rate used for the associated Adjustment Period.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Adjustment Ratio			INTEGER (0100)	Unit: None Range: 01 Step: 0.01

### 9.2.2.D AICH Power

The *AICH Power* IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the *AICH Power* IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
AICH Power			INTEGER (-22+5)	Unit: dB Range: -22 +5 dB Step: 1 dB

#### 9.2.2.1 AICH Transmission Timing

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
AICH Transmission Timing			ENUMERATED	See parameter
			(0, 1)	AICH_Transmission_Timing in ref. [7].

#### 9.2.2.1A AP Preamble Signature

Void.

## 9.2.2.1B AP Sub Channel Number

Void.

#### 9.2.2.1Ba Best Cell Portions

Best Cell Portions IE indicates the best received cell portions and their SIR values when Cell Portions are defined in the cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Best Cell Portions		1 <maxno ofBestCell Portions&gt;</maxno 		
>Cell Portion ID	М		9.2.2.1Ca	
>SIR Value	М		INTEGER (063)	According to mapping in [22] and [23]

Range Bound	Explanation
maxnoofBestCellPortions	Maximum number of reported Best Received Cell Portions

#### 9.2.2.1Bb Bundling Mode Indicator

The Bundling Mode Indicator indicates whether the bundling shall be done or shall not be done for Iub.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Bundling Mode Indicator			ENUMERATED ( Bundling, No bundling)	The value "Bundling" is applicable only when E-TTI indicates "2ms".

#### 9.2.2.1C CD Sub Channel Numbers

Void.

#### 9.2.2.1Ca Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See [4].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion ID			INTEGER (063,)	

#### 9.2.2.1D Channel Assignment Indication

Void.

#### 9.2.2.2 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset relative to the Primary CPICH timing for the DL DPCH or for the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Chip Offset			INTEGER (038399)	Unit: chips

#### 9.2.2.2A Closed Loop Timing Adjustment Mode

Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Closed Loop Timing Adjustment Mode			ENUMERATED ( Offset1,	According to ref. [10] subclause 7.1:
			Offset2, …)	"Offset1" = slot(j+1)mod15 "Offset2" = slot(j+2)mod15

## 9.2.2.3 Common Channels Capacity Consumption Law

Void.

### 9.2.2.3A Compressed Mode Deactivation Flag

The Compressed Mode Deactivation Flag indicates whether Compressed Mode shall be deactivated or not in the new RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Compressed Mode			ENUMERATED (	
Deactivation Flag			Deactivate,	
			Maintain Active)	

#### 9.2.2.4 Compressed Mode Method

Void.

### 9.2.2.4A CPCH Allowed Total Rate

Void.

### 9.2.2.4B CPCH Scrambling Code Number

Void.

### 9.2.2.4C CPCH UL DPCCH Slot Format

Void.

#### 9.2.2.4Ca CQI Power Offset

The *CQI Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slots carrying CQI information and the associated DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CQI Power Offset			INTEGER (08,)	According to mapping in ref. [9] subclause 4.2.1.

## 9.2.2.4Cb CQI Repetition Factor

The CQI Repetiton Factor IE indicates the number of consecutive repetitions of the CQI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CQI Repetition Factor			INTEGER (14,)	Step: 1

#### 9.2.2.4D DCH FDD Information

The DCH FDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP Mode	М		9.2.1.66		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		-	
>>Transport Format Set	М		9.2.1.59	For UL	-	
>>Transport Format Set	М		9.2.1.59	For DL	-	
>>Allocation/Retention Priority	М		9.2.1.1A		-	
>>Frame Handling Priority	М		9.2.1.30		-	
>>QE-Selector	М		9.2.1.50A		-	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	reject
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

### 9.2.2.4E DCHs FDD To Modify

The DCHs FDD To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCHs FDD To Modify		1 <maxno ofDCHs&gt;</maxno 			-	
>UL FP Mode	0		9.2.1.66		-	
>ToAWS	0		9.2.1.61		-	
>ToAWE	0		9.2.1.60		-	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.20		-	
>>Transport Format Set	0		9.2.1.59	For the UL.	-	
>>Transport Format Set	0		9.2.1.59	For the DL.	-	
>>Allocation/Retention Priority	0		9.2.1.1A		-	
>>Frame Handling Priority	0		9.2.1.30		-	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	reject
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

#### 9.2.2.4F DCH Indicator For E-DCH-HSDPA Operation

The DCH Indicator For E-DCH-HSDPA Operation parameter indicates whether *DCH Information* IE should be ignored in the message in which the *DCH Indicator For E-DCH-HSDPA Operation* IE is included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DCH Indicator For E-DCH- HSDPA Operation			ENUMERATED (DCH not present)	

#### 9.2.2.4G Transport Bearer Not Requested Indicator

The Transport Bearer Not Requested Indicator parameter indicates that a transport bearer shall not be established or may not to be established for a DCH or an E-DCH MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Not			ENUMERATED	
Requested Indicator			(Transport Bearer	
			shall not be	
			Established,	
			Transport Bearer	
			may not be	
			Established)	

### 9.2.2.4H Transport Bearer Not Setup Indicator

The Transport Bearer Not Setup Indicator parameter indicates that a transport bearer will not be established for a DCH or an E-DCH MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Not Setup			ENUMERATED	
Indicator			(Transport Bearer	
			Not Setup)	

#### 9.2.2.5 D-Field Length

Void.

### 9.2.2.6 Dedicated Channels Capacity Consumption Law

Void.

9.2.2.7 Diversity Control Field

Void.

### 9.2.2.8 Diversity Indication

Void.

### 9.2.2.9 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Mode			ENUMERATED( None, STTD, Closed loop mode 1, Not Used,)	The <i>Diversity Mode</i> IE shall never be set to "Not Used". If received it shall be rejected.

### 9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to ref. [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL DPCH Slot Format			INTEGER (016,)	

### 9.2.2.10A DL DPCH Timing Adjustment

The DL DPCH Timing Adjustment indicates that a timing adjustment of the related radio link is required or that an Initial DL DPCH Timing Adjustment has been performed by the Node B. It also indicates whether the timing adjustment consists of a timing advance or a timing delay with respect to the SFN timing. The adjustment always consists of 256 chips.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL DPCH Timing Adjustment			ENUMERATED (	The size of the timing
			timing advance,	adjustment is 256 chips.
			timing delay)	

#### 9.2.2.11 DL frame type

Void.

## 9.2.2.12 DL or Global Capacity Credit

Void.

### 9.2.2.12A DL\_power\_averaging\_window\_size

The DL\_power\_averaging\_window\_size IE defines the window size when Limited Power Increase is used [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL_power_averaging_window _size			INTEGER (160)	Unit: inner loop power adjustments Range: 160 Step: 1 adjustment

## 9.2.2.12B DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant RL(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Adjustment Type	М		9.2.2.27	
DL Reference Power	C-		DL Power	Power on DPCH or on F-
	Common		9.2.1.21	DPCH
DL Reference Power	C-	1 <maxno< td=""><td></td><td></td></maxno<>		
Information	Individual	ofRLs>		
>RL ID	М		9.2.1.53	
>DL Reference Power	М		DL Power	Power on DPCH or on F-
			9.2.1.21	DPCH
Max Adjustment Step	C-		9.2.2.20	
	CommonO			
	rIndividual			
Adjustment Period	C-		9.2.2.B	
	CommonO			
	rIndividual			
Adjustment Ratio	C-		9.2.2.C	
	CommonO			
	rIndividual			

Condition	Explanation
Common	The IE shall be present if the Power Adjustment Type IE is set to
	"Common".
Individual	The IE shall be present if the Power Adjustment Type IE is set to
	"Individual".
CommonOrIndividual	The IE shall be present if the Power Adjustment Type IE is set to
	"Common" or 'Individual".

Range Bound	Explanation
maxnoofRLs	Maximum number of Radio Links for a UE

## 9.2.2.12C DL Power Balancing Activation Indicator

The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power Balancing Activation Indicator			ENUMERATED (DL Power	
			Balancing Activated)	

### 9.2.2.12D DL Power Balancing Updated Indicator

The *DL Power Balancing Updated Indicator* IE indicates that the power balancing related parameters is updated in the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power Balancing Updated			ENUMERATED (DL	
Indicator			Power Balancing	
			Updated)	

### 9.2.2.13 DL Scrambling Code

DL scrambling code to be used by the RL. One cell may have multiple DL scrambling codes available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code			INTEGER (015)	"0" = Primary scrambling code of the cell "1""15" = Secondary scrambling code

### 9.2.2.13A DL TPC Pattern 01 Count

The *DL TPC Pattern 01 Count* IE contains the value of the parameter n, which is used for determining the DL TPC pattern on Radio Links marked with "first RLS" by the *First RLS indicator* IE before UL synchronisation is achieved.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL TPC Pattern 01 Count			INTEGER(030,)	

#### 9.2.2.13B DSCH FDD Information

Void.

#### 9.2.2.13C DPC Mode

The DPC Mode IE indicates the DPC mode to be applied [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPC Mode			ENUMERATED ( Mode0, Mode1, )	"Mode0": The Node B shall estimate the UE transmitted TPC command and update the DL power in every slot "Mode1": The Node B shall estimate the UE transmitted TPC command over three slots and shall update the DL power in every three slots

## 9.2.2.13D DSCH FDD Common Information

Void.

## 9.2.2.13Da E-DCH FDD Information

The E-DCH FDD Information IE provides information for an E-DCH to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flows Information	М		9.2.2.13M		_	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	If this IE is not included, scheduled transmission in all HARQ processes is allowed.	_	
E-DCH Maximum Bitrate	0		9.2.2.13T		-	
E-DCH Processing Overload Level	0		9.2.1.79		_	
E-DCH Reference Power Offset	0		9.2.2.13Y		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.85		YES	ignore
SixteenQAM UL Operation Indicator	0		9.2.2.88A		YES	reject
E-AGCH Table Choice	C- SixteenQA M UL Operation		9.2.2.100	If the SixteenQAM UL operation is not configured for this UE, Table 16B for E-AGCH in [8] shall be used.	YES	ignore

Condition	Explanation
SixteenQAM UL Operation	The IE shall be present if the SixteenQAM UL Operation Indicator IE is
	set to 'Activate'.

## 9.2.2.13DA E-DCH FDD Update Information

The *E-DCH FDD Update Information* IE provides information for E-DCH to be updated. At least one IE shall be present.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Update Information		0 <max noofED CHMAC dFlows&gt;</max 			-	
>E-DCH MAC-d Flow ID	Μ		9.2.1.74		_	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		-	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		_	
E-DCH DL Control Channel Change Information		0 <max noofED CHRLs &gt;</max 			GLOBAL	ignore
>E-DCH RL ID	М		RL ID 9.2.1.53		_	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows.
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

## 9.2.2.13Db E-DCH FDD Information Response

The *E-DCH FDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information Response		0 <max noofED CHMAC dFlows&gt;</max 			_	
>E-DCH MAC-d Flow ID	М		9.2.1.74		—	
>Binding ID	0		9.2.1.4		_	
>Transport Layer Address	0		9.2.1.63		—	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		_	
>Transport Bearer Not Setup Indicator	0		9.2.2.4H		YES	ignore
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		-	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows.

# 9.2.2.13Dc E-DCH FDD DL Control Channel Information

The *E-DCH FDD DL Control Channel Information* IE provides information for E-DCH specific DL Control Channels to be provided to UE via RRC signalling.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-AGCH And E-RGCH/E- HICH FDD Scrambling Code	0		DL Scrambling Code 9.2.2.13	Scrambling code on which E- AGCH, E- RGCH and E-HICH are transmitted.	_	
E-AGCH Channelisation Code	0		FDD DL Channelisation Code Number 9.2.2.14		_	
Primary E-RNTI	0		E-RNTI 9.2.1.75		_	
Secondary E-RNTI	0		E-RNTI 9.2.1.75		-	
E-RGCH/E-HICH Channelisation Code	0		FDD DL Channelisation Code Number 9.2.2.14		_	
E-RGCH Signature Sequence	0		INTEGER (0maxnoofSigS eqE-RGHICH - 1)		_	
E-HICH Signature Sequence	0		INTEGER (0maxnoofSigS eqE-RGHICH - 1)		-	
Serving Grant Value	0		INTEGER (037,38)	(037) indicates E- DCH serving grant index as defined in [32]; index 38 means zero grant	_	
Primary/Secondary Grant Selector	0		ENUMERATED (Primary, Secondary)	Indicates whether the Serving Grant Value is granted with a primary E- RNTI or a secondary E- RNTI	_	
E-RGCH Release Indicator	0		9.2.2.13lc		_	
Default Serving Grant in DTX Cycle 2	0		INTEGER (037,38)	Serving Grant value to be used in DTX-Cycle-2. (037) indicates E- DCH serving grant index as defined in [32]; index 38 means zero grant	YES	ignore

Range bound	Explanation
maxnoofSigSeqE-RGHICH	Maximum number of Signature Sequences for E-RGCH/E-HICH.

## 9.2.2.13De E-DCH RL Indication

Indicates whether a RL is an E-DCH RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH RL Indication			ENUMERATED(E-	
			DCH, non E-DCH)	

# 9.2.2.13Df E-DCH FDD Information to Modify

The E-DCH FDD Information to Modify IE is used for the modification of an E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.74		-	
>Allocation/Retention Priority	0		9.2.1.1A		_	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>TNL QoS	0		9.2.1.58A		_	
>Maximum Number Of Retransmissions For E- DCH	0		9.2.1.81		-	
>E-DCH HARQ Power Offset FDD	0		9.2.2.13Dk		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.69		_	
>CHOICE <i>E-DCH</i> Grant Type	0				-	
>>E-DCH Non- Scheduled Transmission Grant						
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	М		9.2.2.13Dm	If the Extended Maximum Number of Bits per MAC-e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored	_	
>>>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		_	
>>>Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	0		9.2.2.13Dr		YES	reject
>>E-DCH Scheduled Transmission Grant			NULL			
>Bundling Mode Indicator	0		9.2.2.1Bb		_	
>E-DCH Logical Channel To Add	0		E-DCH Logical Channel Information 9.2.1.71		_	
>E-DCH Logical Channel To Modify	0		9.2.1.72		_	
>E-DCH Logical Channel To Delete		0 <maxno oflogicalch annels&gt;</maxno 			-	
>>Logical Channel ID	М		9.2.1.80			
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn		-	
E-DCH Maximum Bitrate	0		9.2.2.13T		_	
E-DCH Processing Overload Level	0		9.2.1.79		_	
E-DCH Reference Power	0		9.2.2.13Y		_	

Offset						
MAC-e Reset Indicator	0		9.2.1.83		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.85		YES	ignore
SixteenQAM UL Operation Indicator	0		9.2.2.88A		YES	reject
E-DCH DL Control Channel Grant Information		0 <maxno ofEDCHR Ls&gt;</maxno 			GLOBAL	ignore
>E-DCH RL ID	Μ		RL ID 9.2.1.53		-	
E-AGCH Table Choice	C- SixteenQA M UL Operation		9.2.2.100	If sixteenQAM UL operation is not used in the new configuration for this UE, Table 16B for E-AGCH in [8] shall be used in the new configuration.	YES	ignore

Condition	Explanation
SixteenQAM UL Operation	The IE shall be present if the SixteenQAM UL Operation Indicator IE is
	set to 'Activate'.

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.
maxnooflogicalchannels	Maximum number of logical channels
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

## 9.2.2.13Dh E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in [32] this IE gives details on the referenced Transport Block Size Table, the E-DCH Minimum Set E-TFCI, the Reference E-TFCIs and configuration parameters used for the calculation of the gain factors  $\beta_{ec}$  and  $\beta_{ed}$  defined in [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-TFCI Table Index	М		INTEGER (01,, 27)	Indicates which standardised	-	
				E-TFCS		
				Transport Block Size Table shall		
				be used. The		
				related tables are specified in [32].		
E-DCH Minimum Set E-TFCI	0		INTEGER (0127)	For the concept of	-	
				"E-DCH Minimum Set		
				of TFCs" see [32] and [18].		
Reference E-TFCI Information		1 <maxn oofRefET FCIs&gt;</maxn 			-	
>Reference E-TFCI	М		INTEGER (0127)		_	
>Reference E-TFCI Power Offset	M		9.2.2.13Dp	If the Extended Reference E- TFCI Power Offset IE is present, this IE shall be ignored	_	
>Extended Reference E- TFCI Power Offset	0		9.2.2.13Dq		YES	reject
E-TFCI Boost Information	0		9.2.2.88B		YES	reject
E-DPDCH Power Interpolation	0		BOOLEAN	True means that the E- DPDCH power interpolation formula shall be applied, False means that the E- DPDCH power extrapolation formula shall be applied for the computation of the gain factor $\beta_{ed}$ according to [10]	YES	reject

Range Bound	Explanation
maxnoofRefETFCIs	Maximum number of signalled reference E-TFCIs

## 9.2.2.13Di E-TTI

The E-TTI parameter indicates the Transmission Time Interval for E-DPCH operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TTI			ENUMERATED (2ms, 10ms)	

## 9.2.2.13Dj E-DPCCH Power Offset

The E-DPCCH Power Offset is used to calculate the E-DPCCH gain factor  $\beta_{ec}$  as defined in [10], whereas  $\beta_{ec}$  is related to the power difference between DPCCH and E-DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DPCCH Power Offset			INTEGER (08)	According to mapping in ref. [9] subclause 4.2.1.3.

## 9.2.2.13Dk E-DCH HARQ Power Offset FDD

The E-DCH HARQ Power Offset FDD is used to calculate the unquantised gain factor for an E-TFC ( $\beta_{ed,j,uq}$ ) as defined in [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Power Offset FDD			INTEGER (06)	According to mapping in ref. [9] subclause 4.2.1.3.

## 9.2.2.13DI E-DCH MAC-d Flow Multiplexing List

Void.

#### 9.2.2.13Dm Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission indicates the number of bits allowed to be included in a MAC-e PDU per E-DCH MAC-d flow configured for non-scheduled transmissions. If the range of the *Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE is insufficient to represent the value to be sent to the Node B, the *Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dr.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of Bits per MAC-e PDU for Non-			INTEGER (119982)	
scheduled Transmission				

## 9.2.2.13Dn HARQ Process Allocation For 2ms TTI

The HARQ Process Allocation for 2ms TTI indicates those HARQ processes that are allowed. MAC-d PDU"s for a MAC-d flow are only allowed to be transmitted in those processes for which the bit is set to "1".

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Process Allocation For 2ms TTI			BIT STRING (8)	The first Bit corresponds to HARQ process $ID = 0$ , the second bit corresponds to HARQ process $ID = 1$ , etc. The HARQ process ID for 2ms TTI is defined in [32], chapter 11.8.1.3.

#### 9.2.2.13Dp Reference E-TFCI Power Offset

The Reference E-TFCI Power Offset is used to calculate the reference E-TFC gain factor  $\beta_{ed,ref}$  as defined in [10]. If the range of the *Reference E-TFCI Power Offset* IE is insufficient to represent the value to be sent to the Node B, the *Extended Reference E-TFCI Power Offset* IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dq.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference E-TFCI Power Offset			INTEGER (029)	According to mapping in ref. [9] subclause 4.2.1.3

## 9.2.2.13Dq Extended Reference E-TFCI Power Offset

The *Extended Reference E-TFCI Power Offset* IE shall be used if the range of the *Reference E-TFCI Power Offset* IE (see section 9.2.2.13Dp) is insufficient to represent the value of the Reference E-TFCI Power Offset to be sent to the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Reference E-TFCI			INTEGER	According to mapping in ref.
Power Offset			(3031,)	[9] subclause 4.2.1.3

# 9.2.2.13Dr Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The *Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE shall be used if the range of the *Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission* IE (see section 9.2.2.13Dm) is insufficient to represent the value of the Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission to be sent to the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Maximum Number of			INTEGER	
Bits per MAC-e PDU for Non-			(1998322978,)	
scheduled Transmission				

## 9.2.2.13E Enhanced DSCH PC

Void.

## 9.2.2.13F Enhanced DSCH PC Counter

Void.

#### 9.2.2.13G Enhanced DSCH PC Indicator

Void.

## 9.2.2.13H Enhanced DSCH PC Wnd

Void.

## 9.2.2.13I Enhanced DSCH Power Offset

Void.

#### 9.2.2.13Ia E- RGCH/E-HICH Code Information

This parameter defines the codes which will be assigned for E- RGCH and E-HICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE replaceremove	М			
>replace				
>>E-RGCH/E-HICH Code		1 <maxno ofERGCH EHICHs&gt;</maxno 		
>>>Code Number	М		FDD DL Channelisation Code Number 9.2.2.14	
>remove			NULL	

Range Bound	Explanation
MaxnoofERGCHEHICHs	Maximum number of E-RGCH/E-HICH channelisation codes for one
	cell.

## 9.2.2.13lb E- AGCH Code Information

This parameter defines the codes which will be assigned for E- AGCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE replaceremove	М			
>replace				
>>E-AGCH Code		1 <maxno ofEAGCHs &gt;</maxno 		
>>>Code Number	М		FDD DL Channelisation Code Number 9.2.2.14	
>remove			NULL	

Range Bound	Explanation
MaxnoofEAGCHs	Maximum number of E-AGCH chanellisation codes for one cell.

#### 9.2.2.13Ic E-RGCH Release Indicator

Indicates the E-RGCH is released.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Release Indicator			ENUMERATED (E- RGCH released)	

#### 9.2.2.13Id E-AGCH Power Offset

The *E-AGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-AGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-AGCH Power Offset			INTEGER (0255,)	Unit: dB Range: -32 +31.75 dB Step: 0.25 dB

#### 9.2.2.13le E-RGCH Power Offset

The *E-RGCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-RGCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Power Offset			INTEGER (0255,)	Unit: dB Range: -32 +31.75 dB
				Step: 0.25 dB

#### 9.2.2.13If E-HICH Power Offset

The *E-HICH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the *E-HICH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Power Offset			INTEGER	Unit: dB
			(0255,)	Range: -32 +31.75 dB
				Step: 0.25 dB

#### 9.2.2.13Ig E-RGCH 2-Index-Step Threshold

The E-RGCH 2-index-step-threshold IE is used to determine the Serving Grant.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH 2-Index-Step			INTEGER	Refers to an index in the "SG-
Threshold			(037)	Table" (see [32]).

#### 9.2.2.13lh E-RGCH 3-Index-Step Threshold

The E-RGCH 3-index-step-threshold IE is used to determine the Serving Grant.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH 3-Index-Step Threshold			INTEGER (037)	Refers to an index in the "SG- Table" (see [32]).

#### 9.2.2.13J E-DCH Capability

Void

## 9.2.2.13Ja E-DCH Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the RL/RLS situation and the number of uplink E-DPDCHs and their spreading factors. The reference spreading factor and number of E-DPDCH is signalled using the *Maximum Set of E-DPDCHs* IE.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.

The costs given in the consumption law are the costs per channelization code/no of E-DPDCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SF Allocation Law		1 <maxno ofCombED PDCH&gt;</maxno 		The cost of SF allocation: the first instance corresponds to v2xN2plus2xN4, the second to v2xN2, the third to v2xN4, the fourth to vN4, the fifth to vN8, the sixth to vN16, the seventh to vN32 ,the eighth to vN64, the ninth to vN128,the tenth to vN256 and the eleventh to v2xM2plus2xM4.
>UL Cost 1	Μ		INTEGER (065535)	This is the cost of a RLS
>UL Cost 2	Μ		INTEGER (065535)	This is the cost of a RL
DL Cost 1	0		INTEGER (065535)	This is the cost of a RLS. If not present, zero cost shall be applied.
DL Cost 2	0		INTEGER (065535)	This is the cost of a RL. If not present, zero cost shall be applied.

Range Bound	Explanation
maxnoofCombEDPDCH	Maximum number of Configurations in the <i>Maximum Set of E-DPDCH</i> IE

9.2.2.13K E-DCH Logical Channel Information

Void

# 9.2.2.13L E-DCH Logical Channel To Modify

Void

## 9.2.2.13M E-DCH MAC-d Flows Information

The E-DCH MAC-d Flows Information IE is used for the establishment of E-DCH MAC-d flows.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			_	
>E-DCH MAC-d Flow ID	М		9.2.1.74		-	
>Allocation/Retention Priority	М		9.2.1.1A		_	
>TNL QoS	0		9.2.1.58A		_	
>Payload CRC Presence Indicator	М		9.2.1.49		—	
>Maximum Number Of Retransmissions For E-DCH	М		9.2.1.81		—	
>E-DCH HARQ Power Offset FDD			9.2.2.13Dk		—	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.69		_	
>CHOICE <i>E-DCH Grant</i> <i>Type</i>	М				-	
>>E-DCH Non-Scheduled Transmission Grant						
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	M		9.2.2.13Dm	If the Extended Maximum Number of Bits per MAC- e PDU for Non- scheduled Transmission IE is present, this IE shall be ignored	_	
>>>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.13Dn	If this IE is not included, transmission in all HARQ processes is allowed.	_	
>>>Extended Maximum Number of Bits per MAC- e PDU for Non-scheduled Transmission	0		9.2.2.13Dr		YES	reject
>>E-DCH Scheduled Transmission Grant			NULL			
>Bundling Mode Indicator	0		9.2.2.1Bb		-	
>E-DCH Logical Channel Information	M		9.2.1.71		-	
>Transport Bearer Not Requested Indicator	0		9.2.2.4G		YES	ignore

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.2.2.13N E-DCH MAC-d Flows To Delete

Void

# 9.2.2.130 E-DCH MAC-d Flow ID

Void

#### 9.2.2.13P E-RNTI

Void

## 9.2.2.13Q E-DCH DDI Value

Void

#### 9.2.2.13R E-DCH Provided Bit Rate Value

Void

## 9.2.2.13S E-DCH Provided Bit Rate Value Information

Void

#### 9.2.2.13T E-DCH Maximum Bitrate

The E-DCH Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Maximum Bitrate			INTEGER	Bitrate on transport block level.
			(05742,,	Unit is kbits per second.
			574311498)	

## 9.2.2.13U E-DCH Processing Overload Level

Void

## 9.2.2.13V E-DCH TTI Capability

This parameter defines the E-DCH TTI Capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TTI2ms Capability			BOOLEAN	True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH

#### 9.2.2.13W E-DCH SF Capability

This parameter defines the E-DCH Capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH SF Capability			ENUMERATED (sf64, sf32, sf16, sf8, sf4, 2sf4, 2sf2, 2sf2and2sf4,)	Min SF supported by the cell in E-DCH

## 9.2.2.13X E-DCH HARQ Combining Capability

This parameter defines the E-DCH HARQ Combining capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Combining			ENUMERATED (IR	
Capability			Combining Capable,	
			Chase Combining	
			Capable, IR and	
			Chase Combining	
			Capable)	

## 9.2.2.13Y E-DCH Reference Power Offset

The E-DCH Reference Power Offset is used to estimate the E-DPDCH power from E-TFCI without decoding MAC-e PDUs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Reference Power			INTEGER (06)	According to mapping in ref.
Offset				[9] subclause 4.2.1.3.

#### 9.2.2.13Z E-DCH Power Offset for Scheduling Info

Void

## 9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD DL Channelisation Code Number			INTEGER (0511)	According to the mapping in [9]. The maximum value is equal to the DL spreading factor –1.

## 9.2.2.14A FDD DL Code Information

The FDD DL Code Information IE provides DL Code information for the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD DL Code Information		1 <maxno ofCodes&gt;</maxno 		
>DL Scrambling Code	М		9.2.2.13	
>FDD DL Channelisation Code Number	М		9.2.2.14	
>Transmission Gap Pattern Sequence Code Information	0		9.2.2.53B	

Range Bound	Explanation
maxnoofCodes	Maximum number of DL code information

## 9.2.2.14B FDD S-CCPCH Frame Offset

The *FDD S-CCPCH Frame Offset* IE represents a frame offset between the concerned S-CCPCH"s CFN (Connection Frame Number) relatively to the P-CCPCH"s SFN (System Frame Number) of the respective cell. The *FDD S-CCPCH Frame Offset* IE shall be the constant difference between the S-CCPCH"s CFN and the least significant 8 bits of the SFN (System Frame Number) on Uu.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD S-CCPCH Frame Offset			ENUMERATED (1, 2, 4,)	Offset in frames (corresponding to 10msec, 20msec or 40msec offset in time)

## 9.2.2.15 FDD SCCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD SCCPCH Offset			INTEGER (0149)	Unit: chip Range: 038144 chips Step: 256 chips See ref. [7]

## 9.2.2.16 FDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FDD TPC Downlink Step Size			ENUMERATED (0.5, 1, 1.5, 2,)	Unit: dB

#### 9.2.2.16a F-DPCH Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Capability			ENUMERATED (F-	
			DPCH Capable, F-	
			DPCH Non-Capable)	

## 9.2.2.16A First RLS Indicator

The *First RLS Indicator* IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
First RLS Indicator			ENUMERATED ( First RLS, Not First RLS.	
			)	

## 9.2.2.17 Gap Period

Void.

#### 9.2.2.18 Gap Position Mode

Void.

#### 9.2.2.18a HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as in ref [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERATED( mode0, mode1)	"mode0" means HARQ Preamble Mode =0 "mode1" means HARQ Preamble Mode =1

#### 9.2.2.18b HARQ Preamble Mode Activation Indicator

The HARQ Preamble Activation Indicator indicates if the configured HARQ Preamble Mode has been activated in the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode Activation Indicator			ENUMERATED(HA RQ Preamble Mode Activated).	

#### 9.2.2.18ba HARQ Info for E-DCH

The E-DCH HARQ Info is used to indicate the use of redundancy version (RV) for the EDCH HARQ transmissions.

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
HARQ Info for E-DCH			ENUMERATED (rv0, rvtable)	"rv0" indicates that the UE will only use E_DCH RV index 0. "rvtable" indicates that the UE will use an RSN based RV index as specified in [8]

## 9.2.2.18c Logical channel ID

Void

#### 9.2.2.18A Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, the Node B shall use the limited power increase algorithm as specified in [10], subclause 5.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Limited Power Increase			ENUMERATED( Used, Not Used)	

## 9.2.2.18B Inner Loop DL PC Status

The *Inner Loop DL PC Status* IE indicates whether inner loop DL control shall be active or inactive for all radio links associated with the context identified by the *Node B Communication Context Id* IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Inner Loop DL PC Status			ENUMERATED ( Active, Inactive)	

## 9.2.2.18C IPDL FDD Parameters

The IPDL FDD Parameters IE provides information about IPDL to be applied for FDD when activated.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP SpacingFDD	М		ENUMERATED (5, 7, 10, 15, 20, 30, 40, 50,)	See [10]
IP Length	М		ENUMERATED (5, 10)	See [10]
Seed	М		INTEGER (063)	See [10]
Burst Mode Parameters	0		9.2.1.5A	
IP Offset	М		INTEGER (09)	See [10]

#### 9.2.2.18Ca HS-DSCH configured indicator

The *HS-DSCH Configured Indicator* IE indicates the configuration of HS-DSCH for the UE. The *HS-DSCH Configured Indicator* IE shall be used for the configuration of the E-DPDCH IQ branch mapping [9].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
HS-DSCH Configured Indicator			ENUMERATED (HS- DSCH configured, HS-DSCH not configured)	Indicator of the HS-DSCH forconfiguration of the E- DPDCHs IQ branch mapping [9].

# 9.2.2.18D HS-DSCH FDD Information

The *HS-DSCH FDD Information* IE is used for initial addition of HS-DSCH information to a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flows Information	М		9.2.1.31IA		_	
UE Capabilities Information		1			-	
>HS-DSCH Physical Layer Category	М		9.2.1.31la		_	
>1.28 Mcps TDD Uplink Physical Channel Capability	0		9.2.3.5Gc	Not to be used.	YES	ignore
>Number of Supported Carriers	0		ENUMERA TED ( One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier,)	Not to be used.	YES	reject
>Multi-carrier HS-DSCH Physical Layer Category	0		9.2.1.31la	Not to be used.	YES	ignore
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.38Ab		_	
CQI Feedback Cycle k	Μ		9.2.2.21B		_	
CQI Repetition Factor	C- CQICyclek		9.2.2.4Cb		-	
ACK-NACK Repetition Factor	M		9.2.2.a		_	
CQI Power Offset	М		9.2.2.4Ca		-	
ACK Power Offset	М		9.2.2.b		_	
NACK Power Offset	М		9.2.2.23a		-	
HS-SCCH Power Offset	0		9.2.2.181		-	
Measurement Power Offset	0		9.2.2.21C		-	
HARQ Preamble Mode	0		9.2.2.18a		YES	ignore
MIMO Activation Indicator	0		9.2.2.71		YES	reject
HS-DSCH MAC-d PDU Size Format	0		9.2.1.31ID	If not present, "Indexed MAC- d PDU Size" shall be used.	YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.74A		YES	ignore

Condition	Explanation
CQICyclek	The IE shall be present if the CQI Feedback Cycle k IE is set to a
	value greater than 0.

## 9.2.2.18E HS-DSCH FDD Information Response

The HS-DSCH Information Response provides information for HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow		0 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
Specific Information		ofMACdFl				
Response		OWS>				
>HS-DSCH MAC-d Flow ID	Μ		9.2.1.311		-	
>Binding ID	0		9.2.1.4		—	
>Transport Layer Address	0		9.2.1.63		-	
>HS-DSCH Initial Capacity	0		9.2.1.31Ha		-	
Allocation						
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 			_	
>Code Number	М		INTEGER (0127)		-	
HARQ Memory Partitioning	0		9.2.1.102		-	
HARQ Preamble Mode Activation Indicator	0		9.2.2.18b		YES	ignore
MIMO N/M Ratio	0		9.2.2.96		YES	ignore
SixtyfourQAM DL Usage Indicator	0		9.2.2.74B		YES	ignore
HS-DSCH TB Size Table Indicator	0		9.2.2.18Ee		YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes

#### 9.2.2.18Ea HS-DSCH FDD Update Information

The *HS-DSCH FDD Update Information* IE provides information for HS-DSCH to be updated. At least one IE shall be present.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-SCCH Code Change Indicator	0		9.2.1.31K		-	
CQI Feedback Cycle k	0		9.2.2.21B		_	
CQI Repetition Factor	0		9.2.2.4Cb		_	
ACK-NACK Repetition Factor	0		9.2.2.a		_	
CQI Power Offset	0		9.2.2.4Ca		_	
ACK Power Offset	0		9.2.2.b		-	
NACK Power Offset	0		9.2.2.23a		-	
HS-PDSCH Code Change Indicator	0		9.2.1.31M		YES	ignore

## 9.2.2.18Eb HS-DSCH Serving Cell Change Information

The HS-DSCH Serving Cell Change Information IE contains information which is used in HS-DSCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-PDSCH RL ID	М		RL ID 9.2.1.53		-	
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.18D		_	
HS-DSCH-RNTI	Μ		9.2.1.31J		-	
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.68		YES	reject

## 9.2.2.18Ec HS-DSCH Serving Cell Change Information Response

The *HS-DSCH Serving Cell Change Information Response* IE contains information which is used in HS-DSCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Serving Cell Change					-	
>Successful						
>>HS-DSCH FDD Information Response	М		9.2.2.18E		-	
>Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.69		YES	ignore
>Unsuccessful						
>>Cause	М		9.2.1.6		_	

## 9.2.2.18Ed E-DCH Serving Cell Change Information Response

The *E-DCH Serving Cell Change Information Response* IE contains information which is used in E-DCH Serving Cell change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving Cell Change				
>Successful				
>>RL Information Response		0 <maxno ofRLs&gt;</maxno 		
>>>RL ID	М		9.2.1.53	
>>>E-DCH FDD DL	М		9.2.2.13Dc	
Control Channel				
Information				
>Unsuccessful				
>>Cause	М		9.2.1.6	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE

## 9.2.2.18Ee HS-DSCH TB Size Table Indicator

The HS-DSCH TB Size Table Indicator IE is used to indicate that octet aligned table [32] shall be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH TB Size Table			ENUMERATED	
Indicator			(octet aligned)	

## 9.2.2.18F HS-PDSCH FDD Code Information

This parameter defines the codes which will be assigned for HS-PDSCHs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of HS-PDSCH Codes	М		INTEGER (0maxHS-PDSCHC odeNrComp-1)	
Start Code Number	C- NumCode s		INTEGER (1maxHS-PDSCHC odeNrComp-1)	

Condition	Explanation
NumCodes	The IE shall be present if the Number Of HS-PDSCH Codes IE is set
	to a value greater than 0.

Range Bound	Explanation
MaxHS-PDSCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree

## 9.2.2.18G HS-SCCH FDD Code Information

This parameter defines the codes which will be assigned for HS-SCCH. The Node B will assign codes for HS-SCCHs among these codes when it sets up a HS-DSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE replaceremove	М			
>replace				
>>HS-SCCH Code		1 <maxno ofHSSCC Hs&gt;</maxno 		
>>>Code Number	М		INTEGER (0maxHS-SCCHCo deNrComp-1)	
>remove			NULL	

Range Bound	Explanation
MaxnoofHSSCCHs	Maximum number of HS-SCCHs for one cell.
MaxHS-SCCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the complete code tree

## 9.2.2.18H HS-SCCH ID

Void.

## 9.2.2.18I HS-SCCH Power Offset

The *HS-SCCH Power Offset* IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when FDPCH is configured. When F-DPCH is configured, the *HS-SCCH Power Offset* IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Power Offset			INTEGER (0255)	Unit: dB Range: -32 +31.75 dB Step: 0.25 dB

## 9.2.2.18K Initial DL DPCH Timing Adjustment Allowed

The *Initial DL DPCH Timing Adjustment Allowed* IE indicates that the Node B is allowed to perform a timing adjustment (either a timing advance or a timing delay with respect to the SFN timing) when establishing a radio link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Initial DL DPCH Timing			ENUMERATED (	
Adjustment Allowed			initial DL DPCH	
			Timing Adjustment	
			Allowed)	

## 9.2.2.19 Max Adjustment Period

Void.

#### 9.2.2.20 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. *Max Adjustment Step* IE defines a time period, in terms of number of slots, in which the accumulated power adjustment shall be maximum 1dB. This value does not include the DL inner loop PC adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max Adjustment Step			INTEGER (110)	Unit: Slots

#### 9.2.2.20A Max Number Of PCPCHs

Void.

#### 9.2.2.20B Max Number Of UL E-DPDCHs

Void.

#### 9.2.2.20C Maximum Set of E-DPDCHs

The Maximum Set of E-DPDCHs as defined in [8]. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Set of E-DPDCHs			ENUMERATED (vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,, v2xM2plus2xM4)	

#### 9.2.2.20D Maximum Number Of Retransmissions For E-DCH

Void

#### 9.2.2.20E MAC-es Guaranteed Bit Rate

Void

#### 9.2.2.20F MAC-e Reset Indicator

Void

#### 9.2.2.21 Maximum Number Of UL DPDCHs

Maximum number of uplink DPDCHs to be used during the connection. Needed by the rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max Number Of UL DPDCHs			INTEGER (16)	

#### 9.2.2.21a Maximum Target Received Total Wide Band Power

The Maximum Target Received Total Wide Band Power indicates the maximum target UL interference for a certain cell under CRNC, including received wide band power from all sources.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Target Received Total Wide Band Power			INTEGER (0621)	The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in [22].

## 9.2.2.21b Target Non-serving E-DCH to Total E-DCH Power Ratio

The Target Non-serving E-DCH to Total E-DCH Power Ratio indicates the target ratio of the received E-DCH power from non-serving UEs to the received total E-DCH power.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Target Non-serving E-DCH to Total E-DCH Power Ratio			INTEGER (0100)	Unit: % Range: 0100 %
				Step: 1 %

#### 9.2.2.21A Maximum PDSCH Power

Void.

#### 9.2.2.21B CQI Feedback Cycle k

The *CQI Feedback Cycle k* IE provides the duration of the CQI feedback cycle.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CQI Feedback Cycle k			ENUMERATED (0, 2, 4, 8, 10, 20, 40, 80, 160,, 16, 32, 64)	Unit ms

#### 9.2.2.21C Measurement Power Offset

The Measurement Power Offset IE is used as described in ref [10] subclause 6A.2.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Power Offset			INTEGER (-1226)	Unit: dB
				Range: -613dB
				Step: 0.5dB

#### 9.2.2.21D MICH Mode

The number of Notification Indicators (NIs) transmitted in a MICH frame.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MICH Mode			ENUMERATED (18, 36, 72, 144,)	Number of NIs per frame

#### 9.2.2.22 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is used during the connection. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Min UL Channelisation Code			ENUMERATED	
Length			(4, 8, 16, 32, 64,	
			128, 256,)	

#### 9.2.2.22a Min UL Channelisation Code Length For E-DCH FDD

Void.

#### 9.2.2.23 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Multiplexing Position			ENUMERATED (	
			Fixed,	
			Flexible)	

## 9.2.2.23a NACK Power Offset

The *NACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ NACK information and the associated DPCCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
NACK Power Offset			INTEGER (08,)	According to mapping in ref. [9] subclause 4.2.1.

#### 9.2.2.23A N\_EOT

Void.

#### 9.2.2.23B NF\_max

Void.

#### 9.2.2.23C N\_Start\_Message

Void.

#### 9.2.2.23D Number Of Reported Cell Portions

Number of Reported Cell Portions indicates the number of Best Cell Portions values which shall be included in the measurement report.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Reported Cell Portions			INTEGER (164,)	

## 9.2.2.24 Pattern Duration (PD)

Void.

9.2.2.24A PCP Length

Void.

9.2.2.25 PDSCH Code Mapping

Void.

#### 9.2.2.26 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PICH Mode			ENUMERATED (18, 36, 72, 144,)	Number of PIs per frame

## 9.2.2.27 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Adjustment Type			ENUMERATED ( None, Common, Individual)	

## 9.2.2.28 Power Control Mode

Void.

#### 9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPDCH in case the Node B Communication Context is configured to use DPCH in the downlink or relative to a Secondary CCPCH data field.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset			INTEGER (024)	Unit: dB Range: 06 dB Step: 0.25 dB

#### 9.2.2.29A Power\_Raise\_Limit

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power_Raise_Limit			INTEGER (010)	Unit: dB
				Range: 010 dB
				Step: 1 dB

9.2.2.30 Power Resume Mode

Void.

## 9.2.2.31 Preamble Signature

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Preamble Signatures			BIT STRING (16)	Each bit indicates availability for a signature, where the signatures are numbered "signature 0" up to "signature 15". The value 1 of a bit indicates that the corresponding signature is available and the value 0 that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. See also [9].

#### 9.2.2.32 Preamble Threshold

The IE sets the threshold for preamble detection. The ratio between received preamble power during the preamble period and interference level shall be above this threshold in order to be acknowledged.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Preamble Threshold			INTEGER (072)	Unit: dB Range: -36 0 dB Step: 0.5 dB

#### 9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CPICH Power			INTEGER (-100500)	Value = Primary CPICH Power/10 Unit: dBm Range: -10.0+50.0 dBm Step: 0.1 dB

## 9.2.2.33A Primary CPICH Usage For Channel Estimation

The *Primary CPICH Usage For Channel Estimation* IE indicates whether the Primary CPICH may be used for channel estimation or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CPICH Usage For Channel Estimation			ENUMERATED ( Primary CPICH may be used, Primary CPICH shall not be used)	

## 9.2.2.34 Primary Scrambling Code

The Primary scrambling code to be used in the cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary Scrambling Code			INTEGER (0511)	

#### 9.2.2.35 Propagation Delay

The Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. If the range of the *Propagation Delay* IE is insufficient to represent the measured value, the *Propagation Delay* IE shall be set to its maximum value, and the *Extended Propagation Delay* IE shall be used to represent the propagation delay value, see subclause 9.2.2.35A.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Propagation Delay			INTEGER (0255)	Unit: chip Range: 0765 chips Step: 3 chips

## 9.2.2.35A Extended Propagation Delay

The Extended Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. It shall be used if the *Propagation Delay* IE (see 9.2.2.35) cannot represent the measured value, due to range limitation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Propagation Delay			INTEGER (2551023)	Continuation of intervals as defined in [22]. Unit: chip Range: 7653069 chips Step: 3 chips

## 9.2.2.36 QE-Selector

Void.

9.2.2.36A Qth Parameter

Void.

## 9.2.2.37 RACH Slot Format

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RACH Slot Format			ENUMERATED (03,)	See ref. [7].

## 9.2.2.38 RACH Sub Channel Numbers

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RACH Sub Channel Numbers			BIT STRING (12)	Each bit indicates availability for a subchannel, where the subchannels are numbered "subchannel 0" to "subchannel 11". The value 1 of a bit indicates that the corresponding subchannel is available and the value 0 indicates that it is not available. The order of bits is to be interpreted according to subclause 9.3.4.

## 9.2.2.39 RL Set ID

The RL Set ID uniquely identifies one RL Set within a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL Set ID			INTEGER (031)	

## 9.2.2.39a RL Specific E-DCH Information

The RL Specific E-DCH Information IE provides RL specific E-DCH Information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL Specific E-DCH Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.1.74	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
E-AGCH Power Offset	0		9.2.2.13ld	
E-RGCH Power Offset	0		9.2.2.13le	
E-HICH Power Offset	0		9.2.2.13lf	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

## 9.2.2.39A Received Total Wide Band Power

The Received total wide band power indicates the UL interference at a certain cell under CRNC, see ref. [4].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Received Total Wide Band Power			INTEGER (0621)	According to mapping in [22].

## 9.2.2.39B Reference Received Total Wide Band Power

When sent by the CRNC, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level) for a certain cell under CRNC. This value may be used for E-DCH scheduling in the Node B.

When reported by the Node B, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level as an estimate of the noise floor) estimate from the Node B. This value may be used, e.g. for admission or congestion control in the CRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Received Total Wide Band Power			INTEGER (0621)	The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in [22].

## 9.2.2.39C Reference Received Total Wide Band Power Reporting

The Reference Received Total Wide Band Power Reporting controls the indication of the Reference Received Total Wide Band Power estimate from the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Received Total			ENUMERATED	
Wide Band Power Reporting			(Reference	
			Received Total Wide	
			Band Power	
			Requested)	

#### 9.2.2.39D Reference Received Total Wide Band Power Support Indicator

The Reference Received Total Wide Band Power Support Indicator indicates whether indication of Reference Received Total Wide Band Power is supported by the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Received Total Wide Band Power Support Indicator			ENUMERATED (Indication of Reference Received Total Wide Band Power supported)	

#### 9.2.2.40 S-Field Length

Void.

#### 9.2.2.40A Scheduling Information

Void

#### 9.2.2.41 Scrambling Code Change

Void.

#### 9.2.2.42 Scrambling Code Number

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scrambling Code Number			INTEGER (015)	Identification of scrambling code see ref. [9].

## 9.2.2.43 Secondary CCPCH Slot Format

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Secondary CCPCH Slot Format			INTEGER (017,)	

#### 9.2.2.43A Secondary CPICH Information Change

The Secondary CPICH Information Change IE indicates modification of information of the Secondary CPICH for channel estimation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Secondary CPICH	М			
Information Change				
>New Secondary CPICH				
>>Secondary CPICH	М		Common Physical	
Information			Channel ID 9.2.1.13	
>Secondary CPICH Shall			NULL	
Not Be Used				

### 9.2.2.44 SSDT Cell Identity

Void.

#### 9.2.2.44A SSDT Cell Identity For EDSCHPC

Void.

#### 9.2.2.45 SSDT Cell ID Length

Void.

#### 9.2.2.46 SSDT Support Indicator

The SSDT Support Indicator indicates whether a RL supports SSDT or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Support Indicator			ENUMERATED ( Not Used, SSDT Not Supported)	The SSDT Support Indicator IE shall never be set to 'Not Used'. If received it shall be rejected.

## 9.2.2.47 SSDT Indication

Void.

## 9.2.2.48 STTD Indicator

Indicates if STTD shall be active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
STTD Indicator			ENUMERATED( active, inactive, …)	

## 9.2.2.48A Synchronisation Indicator

The *Synchronisation Indicator* IE indicates that Timing Maintained Synchronisation shall be used at start of Radio Link, see also [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Indicator			ENUMERATED	
			(Timing Maintained	
			Synchronisation,)	

#### 9.2.2.48B Serving E-DCH RL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving E-DCH RL	М			
>Serving E-DCH RL in this Node B				
>>Serving E-DCH RL ID	М		RL ID 9.2.1.53	
>Serving E-DCH RL not in this Node B			NULL	

#### 9.2.2.49 T Cell

Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative BFN. Resolution 256 chips.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T Cell			ENUMERATED (0, 1,,9)	Unit: chip Range: 02304 chips Step: 256 chips See ref. [17]

## 9.2.2.49A TFCI2 Bearer Information Response

Void.

## 9.2.2.50 TFCI Signalling Mode

This parameter indicates if the normal or split mode is used for the TFCI. In the event that the split mode is to be used then the IE indicates whether the split is "Hard" or "Logical", and in the event that the split is "Logical" the IE indicates the number of bits in TFCI (field 2).

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
TFCI Signalling Option	М		ENUMERATED( Normal, Not Used)	The value "Not Used" shall not be used by the CRNC. The procedure shall be rejected by the Node B if the value "Not Used" is received.
Not Used	0		NULL	
Not Used	0		NULL	

#### 9.2.2.51 TGD

Void.

#### 9.2.2.52 TGL

Void.

## 9.2.2.53 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether transmit diversity shall be active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmit Diversity Indicator			ENUMERATED ( active, inactive)	

## 9.2.2.53A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Information		1 <maxt GPS&gt;</maxt 		
>TGPS Identifier	M		INTEGER (1maxTGPS)	Transmission Gap Pattern Sequence Identifier: Establish a reference to the compressed mode pattern sequence. Up to <maxtgps> simultaneous compressed mode pattern sequences can be used.</maxtgps>
>TGSN	M		INTEGER (014)	Transmission Gap Starting Slot Number: The slot number of the first transmission gap slot within the TGCFN.
>TGL1	М		INTEGER (114)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	0		INTEGER (114)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	М		INTEGER (0, 15 269)	Transmission Gap Distance: indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to "0" ("0" =undefined).
>TGPL1	М		INTEGER (1144,)	The duration of transmission gap pattern 1 in frames.
>Not-to-be-used-1	0		INTEGER (1144,)	This IE shall never be included in the IE group. If received it shall be ignored.
>UL/DL Mode	M		ENUMERATED ( UL only, DL only, UL/DL)	Defines whether only DL, only UL or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATED ( Not Used, SF/2, Higher Layer Scheduling, )	Method for generating downlink compressed mode gap.The <i>Downlink</i> <i>Compressed Mode Method</i> IE shall never be set to 'Not Used'.
>Uplink Compressed Mode Method	C-UL		ENUMERATED ( SF/2, Higher Layer Scheduling, )	Method for generating uplink compressed mode gap.
>Downlink Frame Type	M		ENUMERATED (A, B,)	Defines if frame structure type "A" or "B" shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER (030)	Delta in SIR target value to be set in the Node B during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Unit: dB Range: 03 dB Step: 0.1 dB

>DeltaSIRafter1	M	INTEGER	030) Delta in SIR target value to be set in the Node B one frame after the frame containing the start of the first transmission gap in the transmission gap pattern. Unit: dB Range: 03 dB Step: 0.1 dB
>DeltaSIR2	0	INTEGER	030) Delta in SIR target value to be set in the Node B during the frame containing the start of the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). When omitted, DeltaSIR2 = DeltaSIR1. Unit: dB Range: 03 dB Step: 0.1 dB
>DeltaSIRafter2	0	INTEGER	

Condition	Explanation
UL	The IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL".
DL	The IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL".

Range Bound	Explanation			
maxTGPS	Maximum number of transmission gap pattern sequences			

## 9.2.2.53B Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [9].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Code Information			ENUMERATED ( Code Change, No Code Change)	Indicates whether the alternative scrambling code is used for compressed mode method "SF/2".

## 9.2.2.54 UL/DL compressed mode selection

Void.

#### 9.2.2.55 UL delta SIR

Void.

#### 9.2.2.56 UL delta SIR after

Void.

## 9.2.2.57 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPCCH Slot Format			INTEGER (05,)	Value 5 shall not be used. If value 5 is received, the procedure shall be rejected.

#### 9.2.2.58 UL SIR

Void.

#### 9.2.2.59 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Scrambling Code Number	М		INTEGER (02 <sup>24</sup> -1)	
UL Scrambling Code Length	Μ		ENUMERATED (	
			Short,	
			Long)	

## 9.2.2.60 UL Capacity Credit

Void.

#### 9.2.2.61 UL DPDCH Indicator For E-DCH Operation

The UL DPDCH Indicator For E-DCH Operation parameter indicates whether some UL DPCH parameters should be ignored or not in the message in which the *UL DPDCH Indicator For E-DCH Operation* IE was included or that any UL DPDCH resources shall be removed from the communication context configuration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPDCH Indicator For E- DCH Operation			ENUMERATED ( UL-DPDCH present, UL-DPDCH not present)	

### 9.2.2.62 Fast Reconfiguration Mode

The *Fast Reconfiguration Mode* IE is used to notify the Node B that the SRNC would like to use the activation time 'when the UE is detected on the new configuration' as the timing for the reconfiguration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Fast Reconfiguration Mode			ENUMERATED( Fast,…)	

#### 9.2.2.63 Fast Reconfiguration Permission

The *Fast Reconfiguration Permission* IE is used to indicate to the CRNC that the Node B can apply the activation time 'when the UE is detected on the new configuration' for this reconfiguration.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Fast Reconfiguration Permission			ENUMERATED( Allowed…)	
1 ennicelen			, alonoa,)	

### 9.2.2.64 Continuous Packet Connectivity DTX-DRX Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Continuous Packet Connectivity DTX-DRX Capability			ENUMERATED (Continuous Packet Connectivity DTX- DRX Capable, Continuous Packet	
			Connectivity DTX- DRX Non-Capable)	

#### 9.2.2.65 Continuous Packet Connectivity HS-SCCH less Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Continuous Packet Connectivity HS-SCCH less Capability			ENUMERATED (Continuous Packet Connectivity HS- SCCH less Capable, Continuous Packet Connectivity HS- SCCH less Non- Capable)	

### 9.2.2.66 Continuous Packet Connectivity DTX-DRX Information

The *Continuous Packet Connectivity DTX-DRX Information* IE defines the parameters used for Continuous Packet Connectivity DTX-DRX operation (see ref. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	Μ		INTEGER (0159)	Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI
Enabling Delay	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames
DTX Information		1		
>CHOICE E-DCH TTI	М			

Length				
>>2ms				
>>>UE DTX Cycle 1	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>10ms				
>>>UE DTX Cycle 1	М		ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>UE DTX Cycle 2	М		ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	М		ENUMERATED (5, 10, 20)	Units of subframes
>Inactivity Threshold for UE DTX Cycle 2	Μ		ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DTX Long Preamble	М		ENUMERATED (2,4,15)	Units of slots
>MAC Inactivity Threshold	М		ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>CQI DTX Timer	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of subframes
>UE DPCCH burst1	М		ENUMERATED (1, 2, 5)	Units of subframes
>UE DPCCH burst2	М		ENÚMERATED (1, 2, 5)	Units of subframes
DRX Information		01		
>UE DRX Cycle	М		ENUMERATED (4, 5, 8, 10, 16, 20)	Units of subframes
>Inactivity Threshold for UE DRX Cycle	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>Inactivity Threshold for UE Grant Monitoring	M		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DRX Grant Monitoring	М		BOOLEÁN	True: DRX Grant Monitoring shall be applied. False: DRX Grant Monitoring shall not be applied.

## 9.2.2.67 Continuous Packet Connectivity DTX-DRX Information To Modify

The *Continuous Packet Connectivity DTX-DRX Information To Modify* IE is used for modification of Continuous Packet Connectivity DTX-DRX information in a Node B Communication Context. The *Continuous Packet Connectivity DTX-DRX Information To Modify* IE shall include at least one of the following IE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	0		INTEGER (0159)	Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI
Enabling Delay	0		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)	Units of radio frames
CHOICE DTX Information To Modify	0			
>Modify				
>>CHOICE E-DCH TTI	0			

Length			
>>>2ms			
>>>>UE DTX Cycle 1	M	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>>UE DTX Cycle 2	M	ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	М	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>10ms			
>>>UE DTX Cycle 1	Μ	ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>UE DTX Cycle 2	Μ	ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	Μ	ENUMERATED (5, 10, 20)	Units of subframes
>>Inactivity Threshold for UE DTX Cycle 2	0	ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DTX Long Preamble	0	ENUMERATED (2,4,15)	Units of slots
>>MAC Inactivity Threshold	0	ENUMERATED ( 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>>CQI DTX Timer	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of Subframes
>>UE DPCCH burst1	0	ENUMERATED (1, 2, 5)	Units of Subframes
>>UE DPCCH burst2	0	ENUMERATED (1, 2, 5)	Units of Subframes
>Deactivate		NULL	
CHOICE DRX Information To Modify	0		
>Modify			
>>UE DRX Cycle	0	ENUMERATED ( 4, 5, 8, 10, 16, 20)	Units of subframes
>>Inactivity Threshold for UE DRX Cycle	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>>Inactivity Threshold for UE Grant Monitoring	0	ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>>UE DRX Grant Monitoring	0	BOOLEÁN	True: DRX Grant Monitoring shall be applied. False: DRX Grant Monitoring shall not be applied.
>Deactivate	1	NULL	

## 9.2.2.68 Continuous Packet Connectivity HS-SCCH less Information

The *Continuous Packet Connectivity HS-SCCH less Information* IE defines the parameters used for Continuous Packet Connectivity HS-SCCH less operation (see ref. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Block Size List		1 <maxno ofHS- DSCHTBS sHS- SCCHless &gt;</maxno 		
>Transport Block Size Index	М		INTEGER	

		(1maxnoofHS- HTBSs)	DSC
>HS-PDSCH Second Code Support	М	BOOLEAN	True = The second HS- PDSCH code shall also be used False = The second HS- PDSCH code shall not be used

Range Bound	Explanation
maxnoofHS-DSCHTBSsHS-SCCHless	Maximum number of HS-DSCH Transport Block Sizes used for HS- SCCH-less operation
maxnoofHS-DSCHTBSs	Maximum number of HS-DSCH Transport Block Sizes

#### 9.2.2.69 Continuous Packet Connectivity HS-SCCH less Information Response

The *Continuous Packet Connectivity HS-SCCH less Information Response* IE provides information for HS-SCCH less operation determined within the Node B (see ref. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-PDSCH First Code Index	Μ		INTEGER (1maxHS-PDSCHC odeNrComp-1)	Index of first HS-PDSCH code
HS-PDSCH Second Code Index	0		INTEGER (1maxHS-PDSCHC odeNrComp-1)	Index of second HS-PDSCH code

#### 9.2.2.69A Continuous Packet Connectivity HS-SCCH less Deactivate Indicator

The Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE is used to deactivate HS-SCCH less operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Continuous Packet Connectivity HS-SCCH less	Μ		NULL	
Deactivate Indicator				

Range Bound	Explanation
maxHS-PDSCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree

#### 9.2.2.70 MIMO Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Capability			ENUMERATED (MIMO Capable, MIMO Non-Capable)	

### 9.2.2.71 MIMO Activation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Activation Indicator	М		NULL	

#### 9.2.2.72 MIMO Mode Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Mode Indicator			ENUMERATED	
			(Activate,	
			Deactivate)	

#### 9.2.2.73 MIMO Pilot Configuration

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Pilot Configuration	М			
>Primary and Secondary CPICH				
>Associated Secondary CPICH	Μ		Common Physical Channel ID 9.2.1.13	
>Normal and Diversity Primary CPICH			NULL	

## 9.2.2.74 SixtyfourQAM DL Capability

This parameter defines the SixtyfourQAM downlink capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixtyfourQAM DL Capability			ENUMERATED (SixtyfourQAM DL Capable, SixtyfourQAM DL Non-Capable)	

### 9.2.2.74A Sixtyfour QAM Usage Allowed Indicator

The *Sixtyfour QAM Usage Allowed Indicator* IE indicates whether the Node B is allowed to use 64 QAM modulation for HS-DSCH transmission or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sixtyfour QAM Usage Allowed Indicator	Μ		ENUMERATED (Allowed, Not- Allowed)	

### 9.2.2.74B SixtyfourQAM DL Usage Indicator

The *SixtyfourQAM DL Usage Indicator* IE indicates if the Node B is using 64 QAM modulation for the HS-DSCH transmission, or if the Node B is not using 64 QAM modulation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixtyfourQAM DL Usage Indicator			ENUMERATED (SixtyfourQAM DL Used, SixtyfourQAM DL Not Used)	

## 9.2.2.75 HS-DSCH Common System Information

The *HS-DSCH Common System Information* IE provides information for HS-DSCH configured for UE in Cell\_FACH, in Cell\_PCH and in URA\_PCH and Information related to BCCH modification.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Common Information		01		
>CCCH Priority Queue ID	M		Priority Queue ID 9.2.1.49C	
>SRB#1 Priority Queue ID	M		Priority Queue ID 9.2.1.49C	
>Associated Common MAC Flow	М		Common MAC Flow ID 9.2.2.79	The Common MAC Flow ID shall be one of the flow IDs defined in the Common MAC Flow Specific Information of this IE or shall only refer to a Common MAC flow already existing in the old configuration.
>FACH Measurement Occasion Cycle Length Coefficient	0		9.2.2.82	
>RACH Measurement Result	Μ		9.2.2.84	
>BCCH Specific HS-DSCH- RNTI Information	М		9.2.2.85	
Common MAC Flow Specific Information		0 <maxno ofCommon MACFlows &gt;</maxno 		
>Common MAC Flow ID	М		9.2.2.79	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.
>Common MAC Flow Priority Queue Information		0 <maxno ofCommon MACQueu es &gt;</maxno 		
>>Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PCH 9.2.2.83	
>Transport Bearer Request Indicator	0		9.2.1.62A	Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure

Range bound	Explanation
maxnoofCommonMACFlows	Maximum number of Common MAC Flows
maxnoofCommonMACQueues	Maximum number of Priority Queues for Common MAC Flow

# 9.2.2.76 HS-DSCH Paging System Information

The *HS-DSCH Paging System Information* IE provides information for HS-DSCH configured for UE in Cell\_PCH and URA\_PCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging MAC Flow Specific Information		1 <maxno ofPagingM ACFlow&gt;</maxno 		
>Paging MAC Flow ID	М		9.2.2.80	
>HSDPA Associated PICH Information	М		9.2.2.81	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.
>ToAWS	Μ		9.2.1.61	
>ToAWE	Μ		9.2.1.60	
>Paging MAC Flow Priority Queue Information		0 <maxno ofPagingM ACQueues &gt;</maxno 		
>>Priority Queue Information for Enhanced PCH	M		Priority Queue Information for Enhanced FACH/PCH 9.2.2.83	
>>Transport Bearer Request Indicator	0		9.2.1.62A	Shouldn"t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure
HS-SCCH Power	М		DL Power 9.2.1.21	
HS-PDSCH Power	М		DL Power 9.2.1.21	
Number of PCCH transmissions	М		INTEGER (15)	Number of subframes used to transmit the PCCH.
Transport Block Size List		1 <maxno ofHS- DSCHTBS sE-PCH &gt;</maxno 		
>Transport Block Size Index for Enhanced PCH	М		INTEGER (132)	Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of [32]

Range bound	Explanation
maxnoofPagingMACFlow	Maximum number of Paging MAC Flows
maxnoofPagingMACQueues	Maximum number of Priority Queues for Paging MAC Flow
maxnoofHS-DSCHTBSsE-PCH	Maximum number of HS-DSCH Transport Block Sizes used for
	Enhanced PCH operation associated HS-SCCH less

# 9.2.2.77 HS-DSCH Common System Information Response

The *HS-DSCH Common System Information Response* IE provides information for HS-DSCH configured for UE not in Cell\_DCH that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 		Channelization codes on HS-SCCH is transmitted for UE not in Cell_DCH
>Code Number	Μ		INTEGER (0127)	First indexed HS-SCCH Channelisation code should be used for the BCCH specific H-RNTI.

HARQ Memory Partitioning	0		9.2.1.102
Common MAC Flow Specific Information Response		0 <maxno ofCommon MACFlows &gt;</maxno 	
>Common MAC Flow ID	М		9.2.2.79
>Binding ID	0		9.2.1.4
>Transport Layer Address	0		9.2.1.63
>HS-DSCH Initial Capacity Allocation	0		9.2.1.31Ha

Range Bound	Explanation
maxnoofCommonMACFlows	Maximum number of Common MAC Flows
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes

## 9.2.2.78 HS-DSCH Paging System Information Response

The *HS-DSCH Paging System Information Response* IE provides information for HS-DSCH configured for UE in Cell\_PCH and URA\_PCH that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging MAC Flow Specific Information Response		1 <maxno ofPagingM ACFlow&gt;</maxno 		
>Paging MAC Flow ID	Μ		9.2.2.80	
>Binding ID	0		9.2.1.4	
>Transport Layer Address	0		9.2.1.63	
>HS-PDSCH Code Index	М		INTEGER (1maxHS- PDSCHCod eNrComp- 1)	Index of HS-PDSCH code

Range bound	Explanation
maxnoofPagingMACFlow	Maximum number of Paging MAC Flows

### 9.2.2.79 Common MAC Flow ID

Common MAC Flow ID is the unique identifier for one Common MAC flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common MAC Flow ID			INTEGER	
			(07)	

## 9.2.2.80 Paging MAC Flow ID

Paging MAC Flow ID is the unique identifier for one Paging MAC flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging MAC Flow ID			INTEGER	
			(03)	

### 9.2.2.81 HSDPA Associated PICH Information

The HSDPA Associated PICH Information IE provides information for PICH used for Enhanced PCH operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE HSDPA PICH				
>Shared with PCH				
>>Common Physical Channel ID	М		9.2.1.13	
>Not shared with PCH				
>Common Physical Channel ID	М		9.2.1.13	
>>FDD DL Channelisation Code Number	М		9.2.2.14	
>>PICH Power	М		9.2.1.49A	
>>PICH Mode	М		9.2.2.26	Number of PI per frame
>>STTD Indicator	М		9.2.2.48	

#### 9.2.2.82 FACH Measurement Occasion Cycle Length Coefficient

The FACH Measurement Occasion Cycle Length Coefficient IE provides information used for MAC-hs scheduling decision for MAC-c PDU in Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FACH Measurement Occasion Cycle Length Coefficient			INTEGER (112)	

### 9.2.2.83 Priority Queue Information for Enhanced FACH/PCH

The *Priority Queue Information for Enhanced FACH/PCH* IE provides information associated to HSDPA Priority Queue used for Enhanced FACH and/or Enhanced PCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Queue ID	М		9.2.1.49C	
Scheduling Priority Indicator	Μ		9.2.1.53H	
T1	Μ		9.2.1.56a	
MAC-ehs Reset Timer	М		9.2.2.99	
Discard Timer	0		9.2.1.24E	Shall be ignored in case of Enhanced PCH
MAC-hs Window Size	М		9.2.1.38B	
Maximum MAC-c PDU Size	Μ		MAC PDU	
			Size Extended	
			9.2.1.38C	

#### 9.2.2.84 RACH Measurement Result

The RACH Measurement Result identifies which RACH measurement result is forwarded to Node B in Frame Protocol.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RACH Measurement Result			ENUMERATED (CPICH Ec/No, CPICH RSCP, Pathloss,)	

## 9.2.2.85 BCCH Specific HS-DSCH RNTI Information

The BCCH Specific HS-DSCH RNTI Information IE provides information for BCCH Transmission using HS-DSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
BCCH Specific HS-DSCH RNTI	М		HS-DSCH- RNTI 9.2.1.31J	
HS-SCCH Power	Μ		DL Power 9.2.1.21	
HS-PDSCH Power	Μ		DL Power 9.2.1.21	

## 9.2.2.86 Enhanced FACH Capability

This parameter defines the Enhanced FACH capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced FACH Capability			ENUMERATED (Enhanced FACH Capable, Enhanced FACH Non-Capable)	

### 9.2.2.87 Enhanced PCH Capability

This parameter defines the Enhanced PCH capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced PCH Capability			ENUMERATED (Enhanced PCH Capable, Enhanced PCH Non-Capable)	

### 9.2.2.88 SixteenQAM UL Capability

This parameter defines the SixteenQAM uplink capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixteenQAM UL Capability			ENUMERATED (SixteenQAM UL Capable, SixteenQAM UL Non-Capable)	

#### 9.2.2.88A SixteenQAM UL Operation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixteenQAM UL Operation			ENUMERATED	
Indicator			(Activate,	
			Deactivate)	

## 9.2.2.88B E-TFCI Boost Information

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-TFCI BetaEC Boost	М		INTEGER (0127,)	E-TFCI threshold beyond which boosting of E-DPCCH is enabled
UL Delta T2TP	C-E- TFClboost 127		INTEGER (06,)	Total E-DPDCH power across all codes to the combined power of DPCCH and E-DPCCH

Condition	Explanation
E-TFClboost127	The IE shall be present if the E-TFCI BetaEC Boost
	IE value is not set o 127.

### 9.2.2.89 SixteenQAM UL Information

Void.

## 9.2.2.90 SixteenQAM UL Information To Modify

Void.

#### 9.2.2.91 Modulation Power Offset

Indicates the modulation, and power offset in case of 16QAM, to be used for the Secondary CCPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Modulation	М			
>QPSK			NULL	
>QAM				
>>CPICH Secondary CCPCH Power Offset	Μ		INTEGER (-114,)	Power offset between CPICH and secondary CCPCH. Unit: dB Range: -11 +4 dB Step: 1 dB

## 9.2.2.92 Extended Secondary CCPCH Slot Format

Indicates the slot format used for the Secondary CCPCH. The extended slot format shall only be used for MBSFN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Secondary CCPCH Slot Format			INTEGER(1823,)	

## 9.2.2.93 F-DPCH Slot Format

The F-DPCH Slot Format IE defines the F-DPCH slot format for the TPC bits, as defined in [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format			INTEGER (09)	

### 9.2.2.94 F-DPCH Slot Format Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format Capability			ENUMERATED (F- DPCH Slot Format Capable, F-DPCH Slot Format Non- Capable)	

## 9.2.2.95 Max UE DTX Cycle

The *Max UE DTX Cycle* IE defines the maximum UE DTX cycle supported by the Node B for Continuous Packet Connectivity DTX-DRX operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max UE DTX Cycle	М		ENUMERATED (v5, v10, v20, v40, v64,	Units of subframes
			v80, v128, v160,)	

#### 9.2.2.96 MIMO N/M Ratio

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO N/M Ratio	Μ		ENUMERATED (1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10, 1/1,)	

#### 9.2.2.97 Common MAC Flows To Delete

The Common MAC Flows To Delete IE is used for the removal of Common MAC flows from a Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common MAC Flows To Delete		1 <maxno ofCommon MACFlows &gt;</maxno 		
>Common MAC Flow ID	М		9.2.2.79	

Range Bound	Explanation
maxnoofCommonMACFlows	Maximum number of Common MAC Flows

### 9.2.2.98 Paging MAC Flows To Delete

The Paging MAC Flows To Delete IE is used for the removal of Paging MAC flows from a Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging MAC Flows To Delete		1 <maxno ofPagingM</maxno 		
		ACFlow>		
>Paging MAC Flow ID	М		9.2.2.80	

Range Bound	Explanation
maxnoofPagingMACFlow	Maximum number of Paging MAC Flows

### 9.2.2.99 MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer(Treset) described in ref [32] subclause 11.6.4.5.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-ehs Reset Timer			ENUMERATED (1, 2, 3, 4,)	Timer in multiples of T1 values (milliseconds). Used when MAC-ehs reordering queue is reset in CELL_FACH and CELL_PCH

### 9.2.2.100 E-AGCH Table Choice

The E-AGCH Table Choice IE indicates the choice of the E-AGCH table in[8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-AGCH Table Choice	Μ		ENUMERATED (Table 16B, Table 16B-12,)	Table 16B indicates the Table 16B: Mapping of Absolute Grant Value in [8] and Table 16B-12 indicates the Table 16B.12: Alternative Mapping of Absolute Grant Value in [8].

### 9.2.2.101 E-DPCCH Power Boosting Capability

This parameter defines the E-DPCCH Power Boosting Capability for a Local Cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DPCCH Power Boosting Capability			ENUMERATED (E- DPCCH Power Boosting Capable, E-DPCCH Power Boosting Non- Capable)	

## 9.2.2.102 MIMO Power Offset For S-CPICH Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Power Offset For S-			ENUMERATED (S-	
CPICH Capability			CPICH Power	
			Offset Capable, S-	
			CPICH Power	
			Offset Not Capable)	

# 9.2.2.103 Power Offset For Secondary CPICH for MIMO

The *Power Offset For Secondary CPICH for MIMO* IE indicates the relative transmit power of the S-CPICH compared to the primary CPICH transmit power, when S-CPICH is used as a phase reference for a second transmit antenna in MIMO mode [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset For Secondary CPICH for MIMO			INTEGER(-6 0)	Offset in dB

### 9.2.2.104 MIMO Pilot Configuration Extension

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Pilot Configuration	М			
>Primary and Secondary CPICH				
>>Power Offset For Secondary CPICH for MIMO	М		9.2.2.103	
>Normal and Diversity Primary CPICH			NULL	This IE is not used in this release.

### 9.2.2.105 TX Diversity on DL Control Channels by MIMO UE Capability

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TX Diversity on DL Control			ENUMERATED (DL	
Channels by MIMO UE			Control Channel Tx	
Capability			Diversity for MIMO	
			UE with non-diverse	
			P-CPICH Capable,	
			DL Control Channel	
			Tx Diversity for	
			MIMO UE with	
			non-diverse P-	
			CPICH Not	
			Capable)	

### 9.2.2.106 Precoding Weight Set Restriction

This parameter defines the preferred precoding weight set restriction configuration as defined in [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Precoding Weight Set			ENUMERATED	
Restriction			(Preferred, Not Preferred)	

# 9.2.3 TDD specific Parameters

9.2.3.1 Block STTD Indicator

Void.

#### 9.2.3.2 Burst Type

Void.

### 9.2.3.3 CCTrCH ID

The CCTrCH ID for dedicated and shared channels identifies unambiguously an uplink or downlink CCTrCH inside a Radio Link. For S-CCPCH, it identifies unambiguously a downlink CCTrCH within a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CCTrCH ID			INTEGER (015)	

#### 9.2.3.4 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the [3.84 Mcps TDD and 7.68Mcps TDD - Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD - SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] (see ref. [20]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Parameter ID			INTEGER (0127,)	

#### 9.2.3.4A Constant Value

The Constant Value is the power margin used by a UE to set the proper uplink power for a DCH, USCH, or a RACH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Constant Value			INTEGER (-1010,)	Unit: dB Range: -10 +10 dB Step: 1 dB.

#### 9.2.3.4B DL Timeslot ISCP

The DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot ISCP			INTEGER (091)	According to mapping in ref. [5].

#### 9.2.3.4C DCH TDD Information

The DCH TDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH TDD Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP Mode	М		9.2.1.66		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		-	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	-	
>>CCTrCH ID	Μ		9.2.3.3	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	М		9.2.1.59	For UL	-	
>>Transport Format Set	М		9.2.1.59	For DL	-	
>Allocation/Retention Priority	Μ		9.2.1.1A		_	
>>Frame Handling Priority	М		9.2.1.30		-	
>>QE-Selector	C- CoorDCH		9.2.1.50A		_	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	reject
>TNL QoS	0		9.2.1.58A		YES	ignore

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated
	DCHs (number of instances of the DCH Specific Info IE is greater
	than 1).

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

## 9.2.3.4D DCHs TDD To Modify

The DCHs TDD To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCHs TDD To Modify		1 <maxno ofDCHs&gt;</maxno 			-	
>UL FP Mode	0		9.2.1.66		_	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		-	
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	0		9.2.3.3	UL CCTrCH in which the DCH is mapped.	_	
>>CCTrCH ID	0		9.2.3.3	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	0		9.2.1.59	For the UL.	-	
>>Transport Format Set	0		9.2.1.59	For the DL.		
>>Allocation/Retention Priority	0		9.2.1.1A		-	
>>Frame Handling Priority	0		9.2.1.30		-	
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

### 9.2.3.4E DL Timeslot Information

The DL Timeslot Information IE provides information for DL Time slot to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot Information		1 <maxno ofDLts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>Midamble Shift And Burst Type	М		9.2.3.7	
>TFCI Presence	М		9.2.1.57	
>DL Code Information	М		TDD DL Code Information 9.2.3.19B	

Range Bound	Explanation
maxnoofDLts	Maximum number of Downlink time slots per Radio Link

## 9.2.3.4F DL Time Slot ISCP Info

The DL Time Slot ISCP Info IE provides information for DL Interference level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Time Slot ISCP Info		1 <maxno ofDLts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>DL Timeslot ISCP	М		9.2.3.4B	

Range Bound	Explanation
maxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps
	TDD.

### 9.2.3.4G Cell Sync Burst Code

The Cell Sync Burst Code IE indicates which Code is used for a given Cell Sync Burst.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code			INTEGER (07,)	

### 9.2.3.4H Cell Sync Burst Code Shift

The Cell Sync Burst Code Shift IE indicates the number of code shifts used for a given Cell Sync Burst.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Code Shift			INTEGER (07)	

### 9.2.3.4I CSB Measurement ID

The *Cell Sync Burst Measurement ID* IE uniquely identifies any cell synchronisation burst measurement per Node B Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Measurement ID			INTEGER (065535)	

### 9.2.3.4J Cell Sync Burst Repetition Period

The *Cell Sync Burst Repetition Period* IE represents the number of consecutive Radio Frames after which the cell synchronisation burst transmission/measurement is repeated. This means that if the Time Slot *K* is assigned to the cell synchronisation burst transmission/measurements in the Radio Frame *J*, the cell synchronisation burst transmission/measurement is also in all the Radio Frames J+n\*Repetition Period.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Repetition Period			INTEGER (04095)	

#### 9.2.3.4K Cell Sync Burst SIR

Indicates the Signal to Interference Ratio of the cell synchronisation burst measurement according definition in [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst SIR			INTEGER (031)	According to mapping in [23]

### 9.2.3.4L Cell Sync Burst Timing

The *Cell Sync Burst Timing* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5] for 3.84Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>Cell Synch Burst Timing Value	Μ		INTEGER (01048575,)	
>Steady State Phase				
>>Cell Synch Burst Timing	Μ		INTEGER	
Value			(0255,)	

## 9.2.3.4La Cell Sync Burst Timing LCR

The *Cell Sync Burst Timing LCR* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5] for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>Cell Synch Burst Timing	Μ		INTEGER (0	
Value			524287,)	
>Steady State Phase				
>>Cell Synch Burst Timing	Μ		INTEGER	
Value			(0127,)	

## 9.2.3.4M Cell Sync Burst Timing Threshold

The *Cell Sync Burst Timing Threshold* IE defines the threshold that shall trigger a CELL SYNCHRONISATION REPORT message.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Sync Burst Timing Threshold			INTEGER (0254)	Unit: chip Range: 0 31.75 chips Step: 0.125 chip

### 9.2.3.4N CSB Transmission ID

The *Cell Sync Burst Transmisson ID* IE uniquely identifies any cell synchronisation burst transmission per Node B Control Port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CSB Transmission ID			INTEGER (065535)	

### 9.2.3.40 DL Timeslot Information LCR

The *DL Timeslot Information LCR* IE provides information for DL Time slot to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information LCR		1 <ma xnoofD LtsLCR &gt;</ma 			_	
>Time Slot LCR	М		9.2.3.24A			
>Midamble Shift LCR	М		9.2.3.7A			
>TFCI Presence	М		9.2.1.57		1	
>DL Code Information	M		TDD DL Code Information LCR 9.2.3.19C		_	
>Initial DL Transmission Power	0		DL Power 9.2.1.21	Initial power on DPCH	YES	ignore
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	YES	ignore
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	YES	ignore

Range Bound	Explanation
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD.

## 9.2.3.4P DL Time Slot ISCP Info LCR

The *DL Time Slot ISCP Info LCR* IE provides information for DL Interference level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Time Slot ISCP Info LCR		1 <maxno ofDLtsLCR &gt;</maxno 		
>Time Slot LCR	М		9.2.3.24A	
>DL Timeslot ISCP	М		9.2.3.4B	

Range Bound	Explanation
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps
	TDD.

#### 9.2.3.4Q UpPCH Position LCR

The *UpPCH Position LCR* IE indicates the start point of the UpPCH channel , where the step size is 16chips, the maximum allowed value that can be utilised is 127\*16=2032chips, The reference point (UpPCH Position LCR =0) is the startpoint of the timeslot of UpPTS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UpPCH Position LCR			INTEGER (0127)	

### 9.2.3.5 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0239)	

### 9.2.3.5a DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH ID			INTEGER (0255)	

#### 9.2.3.5b DSCH Information Response

The DSCH Information Response IE provides information for DSCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH Information Response		1 <maxno ofDSCHs&gt;</maxno 		
>DSCH ID	М		9.2.3.5a	
>Binding ID	0		9.2.1.4	
>Transport Layer Address	0		9.2.1.63	

Range Bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE

## 9.2.3.5A DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH TDD Information		1 <max noofDS CHs&gt;</max 			_	
>DSCH ID	М		9.2.3.5a		-	
>CCTrCH ID	М		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	М		9.2.1.59	For DSCH	_	
>Allocation/Retention Priority	М		9.2.1.1A		_	
>Frame Handling Priority	М		9.2.1.30		_	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.58A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore

Range Bound	Explanation
MaxnoofDSCHs	Maximum number of DSCH for one UE

#### 9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DwPCH Power			INTEGER	Unit: dBm
			(-150+400,)	Range: -15+40 dBm
				Step: 0.1 dB

### 9.2.3.5C Frame Adjustment Value

The Frame Adjustment Value IE represents the frame number correction within the initial synchronisation phase.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Frame Adjustment Value			INTEGER (04095)	SFN <sub>new</sub> =(SFN <sub>old</sub> +Frame Adjustment Value) mod 4096

### 9.2.3.5D IPDL TDD Parameter

The *IPDL TDD Parameter* IE provides information about IPDL to be applied for 3.84Mcps TDD or 7.68Mcps TDD when activated.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP SpacingTDD	Μ		ENUMERATED (30, 40, 50, 70, 100, )	See [21]
IP Start	М		INTEGER (04095)	See [21]
IP Slot	М		INTEGER (014)	See [21]
IP PCCPCH	М		ENUMERATED ( Switch off 1 frame, Switch off 2 frames)	See [21]
Burst Mode parameters	0		9.2.1.5A	

#### 9.2.3.5E Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the FPACH, the Max FPACH Power is maximum of the linear sum of the power that is allowed for transmitting the FPACH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
FPACH Power			INTEGER (-150+400,)	Unit: dBm Range: -15+40 dBm Step: 0.1 dB

### 9.2.3.5F HS-DSCH TDD Information

The *HS-DSCH TDD Information* IE is used for initial addition of HS-DSCH information to a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d	М		9.2.1.31IA	•	-	
Flows Information						
UE Capabilities		1			_	
Information						
>HS-DSCH Physical Layer Category	Μ		9.2.1.31la		-	
>1.28 Mcps TDD Uplink Physical Channel Capability	0		9.2.3.5Gc	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMERATE D ( One-one carrier, One- three carrier, Three-three carrier, One- six carrier, Three-six carrier, Six-six carrier, )	Applicable to 1.28Mcps TDD only This IE indicates the number of carrier that UE can support at the same time, where 'One-three carrier' means the number of supported carrier is one for the uplink,and three for the downlink.	YES	reject
>Multi-carrier HS- DSCH Physical Layer Category	0		9.2.1.31la	Applicable to 1.28Mcps TDD only	YES	ignore
MAC-hs Reordering Buffer Size for RLC-UM	Μ		9.2.1.38Ab		-	
TDD ACK NACK Power Offset	М		9.2.3.18F		_	
HS-SICH SIR Target	0		UL SIR 9.2.1.67A	Applicable to 1.28Mcps TDD only	YES	ignore
HS-SICH TPC step size	0		9.2.3.21a	Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH MAC-d PDU Size Format	0		9.2.1.31ID	If not present, "Indexed MAC-d PDU Size" shall be used.	YES	reject
TSN-Length	0		9.2.3.51	Applicable for 1.28Mcps TDD when using multiple frequencies	YES	reject

## 9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d		0 <max< td=""><td></td><td></td><td>-</td><td>í í</td></max<>			-	í í
Flow Specific Information		noofMA CdFlow				
Response		S>				
>HS-DSCH MAC-d Flow ID	М		9.2.1.311		_	
>Binding ID	0		9.2.1.4		-	
>Transport Layer Address	0		9.2.1.63		_	
>HS-DSCH Initial Capacity Allocation	0		9.2.1.31Ha		_	
HS-SCCH Specific		0 <max< td=""><td></td><td>Not applicable to 1.28</td><td>GLOBAL</td><td>reject</td></max<>		Not applicable to 1.28	GLOBAL	reject
Information Response		NoOfHS SCCHc odes>		Mcps TDD or 7.68Mcps TDD		
>Time Slot	М	04001	9.2.3.23		-	
>Midamble Shift And Burst Type	М		9.2.3.7		_	
>TDD Channelisation Code	Μ		9.2.3.19		_	
>HS-SICH		1			_	
Information >>HS SICH ID	M		9.2.3.5Gb		_	
>>Time Slot	M		9.2.3.23			
>>Midamble Shift	M		9.2.3.7		_	
And Burst Type						
>>TDD Channelisation Code	М		9.2.3.19		-	
HS-SCCH Specific		0 <max< td=""><td></td><td>Not applicable to 3.84</td><td>_</td><td></td></max<>		Not applicable to 3.84	_	
Information		HSDPA		Mcps TDD or		
Response LCR per UARFCN		Frequen cy>		7.68Mcps TDD See note1 below		
>HS-SCCH Specific		1 <max< td=""><td></td><td>Not applicable to 3.84</td><td>GLOBAL</td><td>reject</td></max<>		Not applicable to 3.84	GLOBAL	reject
Information		NoOfHS SCCHc		Mcps TDD or		
Response LCR		odes>		7.68Mcps TDD		
>>Time Slot LCR	М	00007	9.2.3.24A		-	
>>Midamble Shift LCR	М		9.2.3.7A		_	
>>First TDD	М		TDD		_	
Channelisation Code			Channelisatio n Code			
>>Second TDD	M		9.2.3.19 TDD		_	
Channelisation			Channelisatio n Code			
			9.2.3.19			
>>HS-SICH Information LCR		1			-	
>>>HS SICH ID	M		9.2.3.5Gb	If the Extended HS- SICH ID IE is included in the HS-SICH Information LCR IE,	_	
				the <i>HS-SICH ID</i> IE shall be ignored.		
>>>Time Slot LCR	М		9.2.3.24A		_	
>>>Midamble Shift LCR	Μ		9.2.3.7A		_	
>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>Extended HS- SICH ID	0		9.2.3.5K	The Extended HS- SICH ID IE shall be used if the HS-SICH	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				identity has a value larger than 31.		
>>UsedFrequency	0		UARFCN 9.2.1.65	Applicable for 1.28Mcps TDD when using multiple frequencies. this IE indicates the frequency which is actually used by the HS-SCCH.	YES	reject
>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable for 1.28Mcps TDD when using multiple frequencies. See note2 below	YES	ignore
HARQ Memory Partitioning per UARFCN		0 <max HSDPA Frequen cy&gt;</max 		See note 1 below	_	
>HARQ Memory Partitioning	0		9.2.1.102		_	
>UARFCN	0		9.2.1.65	Corresponds to Nt [15] Applicable for 1.28Mcps TDD when using multiple frequencies. See note2 below	YES	ignore
HS-SCCH Specific Information		0 <max NoOfHS SCCHc</max 		Not applicable to 3.84 Mcps TDD or 1.28Mcps TDD	GLOBAL	reject
Response 7.68Mcps		odes>		1.2010005100		
>Time Slot	М		9.2.3.23		—	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		_	
>Channelisation Code 7.68Mcps	M		TDD Channelisatio n Code 7.68Mcps 9.2.3.34		_	
>HS-SICH Information 7.68Mcps		1			_	
>>HS SICH ID	М		9.2.3.5Gb			
>>Time Slot	М		9.2.3.23		-	
>>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35		_	
>>Channelisation Code 7.68Mcps	M		TDD Channelisatio n Code 7.68Mcps 9.2.3.34		-	
Multi-Carrier number	0		INTEGER(1 maxHSDPAFr equency)	Applicable for 1.28Mcps TDD when using multiple frequencies.	YES	ignore

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows.
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes
maxHSDPAFrequency	Maximum number of Frequencies that UE can support

- Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxHSDPAFrequency are represented by separate ASN.1 structures with different criticalities.
- Note 2: The UARFCN IE in the HARQ Memory Partitioning per UARFCN IE has the same content as that in the HS-SCCH Specific Information Response LCR per UARFCN IE. They will be represented by one ASN.1 structure with same criticalities

#### 9.2.3.5GA HS-DSCH TDD Update Information

The HS-DSCH TDD Update Information IE provides information for HS-DSCH to be updated. At least one IE shall be present.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-SCCH Code Change Indicator	0		9.2.1.31K	
TDD ACK NACK Power Offset	0		9.2.3.18F	

#### 9.2.3.5Ga HS-SCCH ID

The HS-SCCH ID identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS SCCH ID			INTEGER (031)	

#### 9.2.3.5Gb HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS SICH ID			INTEGER (031)	

#### 9.2.3.5Gc 1.28 Mcps TDD Uplink Physical Channel Capability

The 1.28 Mcps TDD Uplink Physical Channel Capability IE defines the UE uplink radio access capacity, see ref [33].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of timeslots per subframe	М		INTEGER (16)	
Maximum number of physical channels per timeslot	Μ		ENUMERATED (one, two,, three, four)	

#### 9.2.3.5H IPDL TDD Parameters LCR

The IPDL TDD Parameters LCR IE provides information about IPDL to be applied for 1.28Mcps TDD when activated.

IE/Group Name Presence Range IE Type and Semantics Description

		Reference	
IP SpacingTDD	М	ENUMERATED	See [21]
		(30, 40, 50, 70, 100)	
		)	
IP Start	М	INTEGER (04095)	See [21]
IP_Sub	М	ENUMERATED (	See [21]
		First,	
		Second,	
		Both)	
Burst Mode Parameters	0	9.2.1.5A	

### 9.2.3.5I TSN-Length

Indicates the TSN bits applied to the MAC-hs PDU frame.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSN-Length			ENUMERATED (tsn- 6bits, tsn-9bits)	

## 9.2.3.5J Extended HS-SCCH ID

The Extended HS-SCCH ID LCR identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs in a cell for 1.28Mcps TDD.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description
Extended HS-SCCH ID			INTEGER(32255)	The <i>Extended HS-SCCH ID</i> IE shall be used if the HS-SCCH identity has a value larger than 31.

## 9.2.3.5K Extended HS-SICH ID

The Extended HS-SICH ID LCR identifies unambiguously a HS-SICH in a cell for 1.28Mcps TDD

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description
Extended HS-SICH ID			INTEGER(32255)	The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31.

### 9.2.3.6 Max PRACH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max PRACH Midamble Shift			ENUMERATED (4, 8,,16)	

### 9.2.3.7 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation for burst types 1, 2 and 3.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Burst Type				
>Type1				
>>Midamble Configuration	Μ		ENUMERATED	As defined in [19]
Burst Type 1 And 3			(4, 8, 16)	
>>CHOICE Midamble	Μ			
Allocation Mode				
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific				
Midamble				
>>Midamble Shift Long	М		INTEGER (015)	
>Type2				
>>Midamble Configuration	Μ		ENUMERATED	As defined in [19]
Burst Type 2			(3, 6)	
>>CHOICE Midamble	Μ			
Allocation Mode				
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific				
Midamble				
>>Midamble Shift Short	М		INTEGER (05)	
>Type3				UL only
>>Midamble Configuration	Μ		ENUMERATED	As defined in [19]
Burst Type 1 And 3			(4, 8, 16)	
>>CHOICE Midamble	Μ			
Allocation Mode				
>>>Default Midamble			NULL	
>>>UE Specific				
Midamble				
>>Midamble Shift Long	М		INTEGER (015)	

### 9.2.3.7A Midamble Shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Midamble Allocation Mode	М		ENUMERATED ( Default midamble, Common midamble, UE specific midamble, )	
Midamble Shift Long	C-UE		INTEGER (015)	
Midamble Configuration LCR	Μ		ENUMERATED (2, 4, 6, 8, 10, 12, 14, 16,)	As defined in [19]

Condition	Explanation
UE	The IE shall be present if the Midamble Allocation Mode IE is set to
	"UE-specific midamble".

### 9.2.3.7Aa Notification Indicator Length

The Notification Indicator Length indicates the number of symbols for Notification Indication transmitted in one timeslot (see ref [19]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Notification Indicator Length			ENUMERATED (2, 4, 8,)	

### 9.2.3.7B Number Of Cycles Per SFN Period

The *Number Of Cycles Per SFN Period* IE indicates the number of repetitions per SFN period where the same schedule shall apply.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Cycles Per SFN			ENUMERATED	
Period			(1, 2, 4, 8,,	
			16, 32, 64)	

### 9.2.3.7C Number Of Repetitions Per Cycle Period

The *Number Of Repetitions Per Cycle Period* IE indicates the number of Sync frames per Cycle Length where the [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync\_DL Codes] shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Repetitions Per Cycle Period			INTEGER (210)	

### 9.2.3.7D Number Of Subcycles Per Cycle Period

The *Number Of Subcycles Per Cycle Period* IE indicates the number of subcycles within a Synchronisation Cycle. Within each subcycle, the same sequence of SYNC\_DL Code transmissions and receptions is performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Subcycles Per Cycle Period			INTEGER (116,)	

### 9.2.3.8 Paging Indicator Length

The Paging Indicator Length indicates the number of symbols for Page Indication transmitted in one timeslot (see ref [19]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging Indicator Length			ENUMERATED (2, 4, 8,)	

#### 9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCCPCH Power			INTEGER	Unit: dBm
			(-150+400,)	Range: -15+40 dBm
				Step: 0.1 dB

#### 9.2.3.10 PDSCH ID

The PDSCH ID identifies unambiguously a PDSCH inside a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PDSCH ID			INTEGER (0255)	

### 9.2.3.11 PDSCH Set ID

The PDSCH Set Id identifies unambiguously a PDSCH Set inside a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PDSCH Set ID			INTEGER (0255)	See ref. [6]

#### 9.2.3.11A Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CCPCH RSCP			INTEGER (091)	According to mapping of the non-negative values in ref. [23].

### 9.2.3.11B Primary CCPCH RSCP Delta

Primary CCPCH RSCP Delta is the offset used to report the negative reporting range of P-CCPCH RSCP as per [23].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Primary CCPCH RSCP Delta			INTEGER(-51,)	If present, the actual value of Primary CCPCH RSCP = Primary CCPCH RSCP Delta

#### 9.2.3.12 PUSCH ID

The PUSCH ID identifies unambiguously a PUSCH inside a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PUSCH ID			INTEGER (0255)	

### 9.2.3.13 PUSCH Set ID

The PUSCH Set ID identifies unambiguously a PUSCH Set inside a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PUSCH Set ID			INTEGER (0255)	See ref. [6]

### 9.2.3.14 PRACH Midamble

The PRACH Midamble indicates if only the Basic Midamble Sequence or also the time-inverted Midamble Sequence is used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PRACH Midamble			ENUMERATED ( Inverted, Direct, )	

### 9.2.3.14A Reference Clock Availability

The *Reference Clock Availability* IE is used to indicate the presence and operating of a Reference Clock connected to a TDD cell for cell synchronisation purpose.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference Clock Availability			ENUMERATED ( Available, Not Available)	

### 9.2.3.14B Reference SFN Offset

The *Reference SFN Offset* IE indicates the number of frames the reference SFN shall be shifted compared to the SFN derived from the synchronisation port.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference SFN Offset			INTEGER (0255)	

### 9.2.3.15 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. [18].

[1.28Mcps TDD - When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Length represents the number of consecutive Subframes, i.e. 5ms inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. [18].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Length			INTEGER (163)	

### 9.2.3.16 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot *K* is assigned to a physical channel in the Radio Frame *J*, it is assigned to the same physical channel also in all the Radio Frames J+n\*Repetition Period (where *n* is an integer) see ref. [18].

[1.28Mcps TDD - When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Period represents the number of consecutive Subframes, i.e. 5ms after which the same assignment scheme of Time Slots to a Physical Channel is repeated see ref. [18].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period			ENUMERATED (1, 2, 4, 8, 16, 32,	
			64,)	

### 9.2.3.17 SCH Time Slot

The *SCH Time Slot* IE represents the first time slot (k) of a pair of time slots inside a Radio Frame that shall be assigned to the Physical Channel SCH. The *SCH Time Slot* IE is only applicable if the value of *Sync Case* IE is Case 2 since in this case the SCH is allocated in TS#k and TS#k+8.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCH Time Slot			INTEGER (06)	

#### 9.2.3.18 Sync Case

The SCH and PCCPCH are mapped on one or two downlink slots per frame. There are two cases of SCH and PCCPCH allocation as follows:

- Case 1) SCH and PCCPCH allocated in a single TS#k
- Case 2) SCH allocated in two TS: TS#k and TS#k+8 PCCPCH allocated in TS#k

[1.28Mcps TDD - There is no Sync Case indication needed for 1.28Mcps TDD. If the *Sync Case* IE must be included in a message from CRNC to Node B used for 1.28Mcps TDD, the CRNC should indicate Sync Case 1 and the Node B shall ignore it.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Case			INTEGER (12,)	

## 9.2.3.18A Special Burst Scheduling

The number of frames between special burst transmissions during DTX.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Special Burst Scheduling			INTEGER (1256)	Number of frames between special burst transmission during DTX

#### 9.2.3.18B SYNC\_DL Code ID

The SYNC\_DL Code ID identifies the SYNC\_DL Code which used by DwPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SYNC_DL Code ID			INTEGER (132,)	

#### 9.2.3.18C Sync Frame Number

The *Sync Frame Number* IE indicates the number of the Sync frame within a Synchronisation Cycle or Subcycle, respectively, where the cell synchronisation bursts shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Frame Number			INTEGER (110)	

### 9.2.3.18D Synchronisation Report Characteristics

The *Synchronisation Report Characteristics* IE defines how the reporting on measured [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync\_DL Codes] shall be performed

Different methods shall apply for the measured [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - Sync\_DL Codes] reports. [3.84Mcps TDD - In the frequency acquisition phase the measurement report shall be sent when the frequency locking is completed.] In the initial phase and for the measurement on late-entrant cells an immediate report after the measured frame is expected.

In the steady-state phase measurement reports may be given after every measured frame, after every SFN period, after every cycle length or only when the requested threshold is exceeded.

IE/Group Name	Presenc	Range	IE Type and	Semantics	Criticality	Assigned
Synchronisation Report Characteristics Type	e M		Reference ENUMERATED ( Frame related, SFN period related, Cycle length related, Threshold exceeding, Frequency Acquisition	Description	_	Criticality
Threshold Exceeding	C- Threshol dExceedi ng		completed, )	Applies only to the Steady State Phase	-	
>Cell Sync Burst Threshold Information		0 <maxn oofCellSy ncBursts &gt;</maxn 		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	_	

>>Sync Frame Number To Receive	М		Sync Frame Number 9.2.3.18C		-	
>>Cell Sync Burst Information		1 <maxn oofrecept ionsperS yncFram e&gt;</maxn 			-	
>>>Cell Sync Burst Code	М		9.2.3.4G		-	
>>>Cell Sync Burst Code Shift	М		9.2.3.4H		-	
>>>Cell Sync Burst Arrival Time	0		Cell Sync Burst Timing 9.2.3.4L		-	
>>>Cell Sync Burst Timing Threshold	0		9.2.3.4M		-	
>SYNC_DL Code Threshold Information LCR		0 <maxn oofSyncF ramesLC R&gt;</maxn 		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	GLOBAL	ignore
>>Sync Frame Number To Receive	М		Sync Frame Number 9.2.3.18C		-	
>>SYNC_DL Code Information LCR		1 <maxn oofrecept ionsperS yncFram eLCR&gt;</maxn 			_	
>>>SYNC_DL Code ID	М		9.2.3.18B		-	
>>>SYNC_DL Code ID Arrival Time	0		Cell Sync Burst Timing LCR 9.2.3.4La		-	
>>>SYNC_DL Code ID Timing Threshold	0		Cell Sync Burst Timing Threshold 9.2.3.4M		_	

Range Bound	Explanation
maxnoofCellSyncBursts	Maximum number of cell synchronisation burst per cycle for 3.84Mcps
	TDD
maxnoofreceptionsperSyncFrame	Maximum number of cell synchronisation burst receptions per Sync
	Frame for 3.84Mcps TDD
maxnoofSyncFramesLCR	Maximum number of SYNC Frames per repetition period for
	1.28Mcps TDD
maxnoofreceptionsperSyncFrameLCR	Maximum number of SYNC_DL Code ID receptions per Sync Frame
	for 1.28Mcps TDD

# 9.2.3.18E Synchronisation Report Type

The *Synchronisationt Report Type* IE represents the individual types of synchronisation reports that shall apply within the individual synchronisation phases. (see [17]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Synchronisation Report Type			ENUMERATED ( Initial Phase, Steady-State Phase, Late-Entrant Cell, Frequency Acquisition, )	

## 9.2.3.18F TDD ACK NACK Power Offset

The *TDD ACK NACK Power Offset* IE indicates Power offset used in the UL in the HS-SICH between transmissions carrying positive and negative acknowledgements as per [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD ACK NACK Power Offset			INTEGER (-78,)	Unit: dB Range: -7+8 dB Step: 1 dB

## 9.2.3.19 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			ENUMERATED ( (1/1), (2/1), (2/2), (4/1), (4/4), (8/1), (8/8), (16/1), (16/16),)	

### 9.2.3.19a TDD Channelisation Code LCR

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 1.28Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16 and there is a choice between QPSK and 8PSK modulation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			9.2.3.19	
Modulation			ENUMERATED (QPSK, 8PSK,)	Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD. 8PSK denotes 16QAM for S-CCPCH

### 9.2.3.19A TDD DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The *Offset* Type IE = "No Initial Offset" is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The *Offset Type* IE = "Initial Offset" is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offset for each DPCH in this CCTrCH shall calculated by TDD DPCH Offset *mod* Repetition period, see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Offset Type				
>Initial Offset				
>>TDD DPCH Offset Value	М		INTEGER (0255)	
>No Initial Offset				
>>TDD DPCH Offset Value	М		INTEGER (063)	

### 9.2.3.19B TDD DL Code Information

The TDD DL Code Information IE provides DL Code information for the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information		1 <maxno ofDPCHs&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code	М		9.2.3.19	

Range Bound	Explanation	
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH	

## 9.2.3.19C TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information LCR		1 <maxno ofDPCHsL CR&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code LCR	М		9.2.3.19a	
>TDD DL DPCH Time Slot Format LCR	М		9.2.3.19D	

Range Bound	Explanation		
maxnoofDPCHsLCR	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD		

### 9.2.3.19D TDD DL DPCH Time Slot Format LCR

TDD DL DPCH Time Slot Format LCR indicates the time slot formats used in DL DPCH for 1.28Mcps TDD (see ref. [19]). It also applies to PDSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Modulation	М			
>QPSK				
>>QPSK TDD DL DPCH Time Slot Format LCR >8PSK	M		INTEGER (024,)	
>>8PSK TDD DL DPCH Time Slot Format LCR	М		INTEGER (024,)	For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format, INTEGER (011,).

# 9.2.3.20 TDD Physical Channel Offset

The Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = Offset) see ref. [18].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Physical Channel Offset			INTEGER (063)	

### 9.2.3.21 TDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment (see ref. [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Downlink Step Size			ENUMERATED (1, 2, 3,)	Unit: dB

#### 9.2.3.21a TDD TPC UL Step Size

This parameter indicates step size for the UL power adjustment (see ref. [21]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Uplink Step Size			ENUMERATED (1, 2, 3,)	Unit: dB

#### 9.2.3.21A TDD UL Code Information

The TDD UL Code Information IE provides information for UL Code to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD UL Code Information		1 <maxno ofDPCHs&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code	М		9.2.3.19	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs in one CCTrCH

### 9.2.3.21B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD UL Code Information LCR		1 <maxno ofDPCHsL CR&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code LCR	М		9.2.3.19a	
>TDD UL DPCH Time Slot Format LCR	М		9.2.3.21C	

Range Bound	Explanation
maxnoofDPCHsLCR	Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD

#### 9.2.3.21C TDD UL DPCH Time Slot Format LCR

TDD UL DPCH Time Slot Format LCR indicates the time slot formats used in UL DPCH for 1.28Mcps TDD (see ref. [19]). It also applies to PUSCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Modulation	М			
>QPSK				
>>QPSK TDD UL DPCH Time Slot Format LCR	М		INTEGER (069,)	
>8PSK				
>>8PSK TDD UL DPCH Time Slot Format LCR	М		INTEGER (024,)	

### 9.2.3.22 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Coding			ENUMERATED (4, 8, 16, 32,)	

#### 9.2.3.22a Timing Adjustment Value

The *Timing Adjustment Value* IE indicates the timing correction within a Frame for 3.84Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Timing Adjustment Value	М		INTEGER (01048575,)	
>Steady State Phase				
>>Timing Adjustment Value	Μ		INTEGER (0255,)	

### 9.2.3.22b Timing Adjustment Value LCR

The *Timing Adjustment Value LCR* IE indicates the timing correction within a Frame for 1.28Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Phase				According to mapping in [23]
>Initial Phase				
>>Timing Adjustment	М		INTEGER (0	
Value			524287,)	
>Steady State Phase				
>>Timing Adjustment	М		INTEGER	
Value			(0127,)	

#### 9.2.3.22A Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timing Advance Applied			ENUMERATED( Yes,	
			No)	

#### 9.2.3.23 Time Slot

The Time Slot represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot			INTEGER (014)	

# 9.2.3.24 Time Slot Direction

This parameter indicates whether the TS in the cell is used in Uplink or Downlink direction.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot Direction			ENUMERATED ( UL, DL, )	

#### 9.2.3.24A Time Slot LCR

The Time Slot LCR is the number of the traffic time slot within a 5 ms subframe of LCR TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot LCR			INTEGER (06)	

#### 9.2.3.24B Time Slot LCR Extension

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot LCR Extension			ENUMERATED (ts7,)	ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier.

#### 9.2.3.25 Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot Status			ENUMERATED ( Active, Not Active, )	

# 9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on physical channels that may use closed loop transmit diversity is to be applied in a cell (see ref. [19]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Diversity Applied			BOOLEAN	True: Transmission Diversity shall be applied in this Cell. False: Transmission Diversity shall not be applied in this Cell.

### 9.2.3.26A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the Node B, see ref. [5].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot ISCP			INTEGER (0127)	According to mapping in [23].

### 9.2.3.26B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL PhysCH SF Variation			ENUMERATED ( SF_Variation_suppo rted, SF_Variation_NOT_ supported)	

# 9.2.3.26C UL Timeslot Information

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information		1 <maxno ofULts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>Midamble Shift And Burst Type	М		9.2.3.7	
>TFCI Presence	М		9.2.1.57	
>UL Code Information	М		TDD UL Code Information 9.2.3.21A	

Range Bound	Explanation
maxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.2.3.26D UL Time Slot ISCP Info

The UL Time Slot ISCP Info IE provides information for UL Interfernce level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Time Slot ISCP Info		1 <maxno ofULts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>UL Timeslot ISCP	М		9.2.3.26A	

Range Bound	Explanation
maxnoofULts	Maximum number of Uplink time slots per Radio Link

# 9.2.3.26E UL Timeslot Information LCR

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information LCR		1 <maxno ofULtsLCR &gt;</maxno 			_	
>Time Slot LCR	М		9.2.3.24A		-	
>Midamble Shift LCR	М		9.2.3.7A		-	
>TFCI Presence	М		9.2.1.57		-	
>UL Code Information	М		TDD UL Code Information LCR 9.2.3.21B		-	
>PLCCH Information	0		9.2.3.31		YES	reject

Range Bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD.

# 9.2.3.26F UL Time Slot ISCP Info LCR

The UL Time Slot ISCP Info LCR IE provides information for UL Interfernce level for each time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Time Slot ISCP Info LCR		1 <maxno ofULtsLCR &gt;</maxno 		
>Time Slot LCR	М		9.2.3.24A	
>UL Timeslot ISCP	М		9.2.3.26A	

Range Bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD

#### 9.2.3.26G Uplink Synchronisation Frequency

The UL Synchronisation Frequency IE specifies the frequency of the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation			INTEGER (18)	Unit: subframe
Frequency				Step: 1

### 9.2.3.26H Uplink Synchronisation Step Size

The UL Synchronisation Step Size IE specifies the step size to be used for the adjustment of the uplink transmission timing.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Synchronisation Step Size			INTEGER (18)	Unit: 1/8 chip Step: 1.

#### 9.2.3.27 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH ID			INTEGER (0255)	

# 9.2.3.28 USCH Information

The USCH Information IE provides information for USCHs to be established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCH Information		1 <max noofUS CHs&gt;</max 			_	
>USCH ID	М		9.2.3.27		-	
>CCTrCH ID	М		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	Μ		9.2.1.59	For USCH	_	
>Allocation/Retention Priority	Μ		9.2.1.1A		_	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofUSCHs	Maximum number of USCHs for one UE

#### 9.2.3.29 USCH Information Response

The USCH Information Response IE provides information for USCHs that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH Information Response		1 <maxno ofUSCHs&gt;</maxno 		
>USCH ID	М		9.2.3.27	
>Binding ID	0		9.2.1.4	
>Transport Layer Address	0		9.2.1.63	

Range Bound	Explanation
maxnoofUSCHs	Maximum number of USCHs for one UE

### 9.2.3.30 SCTD Indicator

Indicates if SCTD antenna diversity is applied or not to beacon channels (see ref. [19]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCTD Indicator			ENUMERATED (	
			active,	
			inactive)	

### 9.2.3.31 PLCCH Information

The PLCCH Information IE carries a PLCCH assignment for a timeslot of an UL DCH-type CCTrCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID	М		9.2.1.13	
PLCCH Sequence Number	М		9.2.3.32	

### 9.2.3.32 PLCCH Sequence Number

This sequence number represents a portion of a PLCCH used to signal TPC / SS bits to a single UE. A value of zero indicates that the PLCCH assignment has been deleted.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLCCH Sequence Number			INTEGER (014)	

#### 9.2.3.33 Common Physical Channel ID 7.68Mcps

Common Physical Channel ID is the unique identifier for one common physical channel within a cell for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID 7.68 Mcps			INTEGER (0511)	

#### 9.2.3.34 TDD Channelisation Code 7.68Mcps

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 7.68Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code that can have a spreading factor of 1, 2, 4, 8, 16 or 32.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code			ENUMERATED((1/1 ), (2/1), (2/2), (4/1), (4/4), (8/1), (8/8), (16/1), (16/16), (32/1), (32,32),)	

#### 9.2.3.35 Midamble Shift And Burst Type 7.68Mcps

This information element indicates burst type and midamble allocation for burst types 1,2 and 3 for 7.68Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Burst Type				
>Type1				
>>Midamble Configuration Burst Type 1 And 3	М		ENUMERATED (4, 8, 16)	As defined in [19]
>>CHOICE Midamble Allocation Mode	М			
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Long	Μ		INTEGER (015)	
>Type2				
>Midamble Configuration Burst Type 2	М		ENUMERATED (4, 8)	As defined in [19]
>>CHOICE Midamble Allocation Mode	Μ			
>>>Default Midamble			NULL	
>>>Common Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Short	М		INTEGER (07)	
>Type3				UL only
>Midamble Configuration Burst Type 1 And 3	М		ENUMERATED (4, 8, 16)	As defined in [19]
>>CHOICE Midamble Allocation Mode	Μ			
>>>Default Midamble			NULL	
>>>UE Specific Midamble				
>>Midamble Shift Long	М		INTEGER (015)	

#### 9.2.3.36 Common Physical Channel Status Information 7.68Mcps

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Physical Channel ID 7.68 Mcps	М		9.2.3.33	
Resource Operational State	М		9.2.1.52	
Availability Status	М		9.2.1.2	

#### 9.2.3.37 Neighbouring TDD Cell Measurement Information 7.68Mcps

This IE provides information on the 7.68 Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the *Time Slot* IE and *Midamble Shift And Burst Type 7.68Mcps* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UC-Id	М		9.2.1.65B	
UARFCN	М		9.2.1.65	Corresponds to Nt [15]
Cell Parameter ID	М		9.2.3.4	
Time Slot	0		9.2.3.23	
Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.35	

# 9.2.3.38 UL Timeslot Information 7.68Mcps TDD

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot Information		1 <maxno ofULts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.35	
>TFCI Presence	М		9.2.1.57	
>UL Code Information	М		TDD UL Code Information 7.68Mcps TDD 9.2.3.40	

1	Range Bound	Explanation
	maxnoofULts	Maximum number of Uplink time slots per Radio Link

### 9.2.3.39 DL Timeslot Information 7.68Mcps TDD

The DL Timeslot Information IE provides information for DL Time slot to be established for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot Information		1 <maxno ofDLts&gt;</maxno 		
>Time Slot	М		9.2.3.23	
>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.35	
>TFCI Presence	М		9.2.1.57	
>DL Code Information	М		TDD DL Code Information 7.68Mcps TDD 9.2.3.41	

Range Bound	Explanation
maxnoofDLts	Maximum number of Downlink time slots per Radio Link

# 9.2.3.40 TDD UL Code Information 7.68Mcps TDD

The *TDD UL Code Information 7.68Mcps TDD* IE provides information for UL Code to be established for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD UL Code Information		1 <maxno ofDPCHs&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.34	

Range Bound	Explanation
maxnoofDPCHs	Maximum number of uplink DPCHs in one CCTrCH at 7.68Mcps

# 9.2.3.41 TDD DL Code Information 7.68Mcps TDD

The TDD Code Information 7.68Mcps TDD IE provides DL Code information for the RL for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD DL Code Information		1 <maxno ofDPCHs7 68&gt;</maxno 		
>DPCH ID	М		9.2.3.5	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.34	

Range Bound	Explanation
maxnoofDPCHs768	Maximum number of downlink DPCHs in one CCTrCH at 7.68Mcps

### 9.2.3.42 DPCH ID 7.68Mcps

The DPCH ID 7.68Mcps identifies unambiguously a DPCH inside a downlink Radio Link for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH ID			INTEGER (0479)	

#### 9.2.3.43 PDSCH ID 7.68Mcps

The PDSCH ID 7.68Mcps identifies unambiguously a PDSCH inside a cell for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PDSCH ID			INTEGER (0511)	

#### 9.2.3.44 Max E-RUCCH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Max E-RUCCH Midamble Shift			ENUMERATED (4, 8,,16)	

#### 9.2.3.45 E-PUCH Information

The *E-PUCH Information* IE provides parameters to configure the E-PUCH physical channel for 3.84Mcps TDD and 7.68 Mcps TDD.

IE/Group Name	Presence	Range IE Type and Reference		Semantics Description
Minimum code rate	М		INTEGER (063)	Unit: - Range: 0.0551 Step: 0.015
Maximum code rate	М		INTEGER (063)	Unit: - Range: 0.0551 Step: 0.015
HARQ Info for E-DCH	М		ENUMERATED (rv0, rvtable)	'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in [8]
NE-UCCH	М		INTEGER (112)	Number of slots that are required to carry TPC and TFCI (consecutively allocated slots beginning with the first).

# 9.2.3.45a E-PUCH Information LCR

The *E-PUCH Information LCR* IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Minimum code rate	М		INTEGER (063)	Unit: - Range: 0.055 1 Step: 0.015	-	
Maximum code rate	М		INTEGER (063)	Unit: - Range: 0.055 1 Step: 0.015	_	
HARQ Info for E-DCH	Μ		ENUMERA TED (rv0, rvtable)	'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in [8]	_	
PRXdes_base	М		INTEGER (-11250)	dBm. Reference Desired RX power level for E-PUCH. Reference to Pe-base in [21]	_	
E-PUCH TPC Step Size	М		TDD TPC UL Step Size 9.2.3.21a		-	
E-AGCH TPC Step Size	М		TDD TPC DL Step Size 9.2.3.21		-	
E-PUCH Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes. Reference to E- PUCH Power Control for 1.28Mcps TDD in [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.	YES	ignore

# 9.2.3.46 E-TFCS Information TDD

Whereas the related E-DCH Transport Block sizes are standardised in [32] this IE gives details on the Reference Betas.

IE/Group Name Presence Range		IE Type and Reference	Semantics Description	
Reference Beta Information QPSK		1 <maxno ofRefbeta s&gt;</maxno 		
>Reference Code Rate	М		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	М		INTEGER(-1516)	Unit: - Range: -15+16 Step: 1 dB
Reference Beta Information 16QAM		1 <maxno ofRefbeta s&gt;</maxno 		
>Reference Code Rate	М		INTEGER (010)	Unit: - Range: 01 Step: 0.1
>Reference Beta	М		INTEGER(-1516)	Unit: - Range: -15+16 Step: 1 dB

Range Bound	Explanation
maxnoofRefbetas	Maximum number of signalled reference betas

### 9.2.3.47 E-DCH MAC-d Flows Information TDD

The E-DCH MAC-d Flows Information TDD IE is used for the establishment of E-DCH MAC-d flows for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>E-DCH MAC-d Flow ID	М		9.2.1.74	
>Allocation/Retention Priority	М		9.2.1.1A	
>TNL QoS	0		9.2.1.58A	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
>Payload CRC Presence Indicator	М		9.2.1.49	
>Maximum Number Of Retransmissions For E-DCH	М		9.2.1.81	
>E-DCH HARQ Power Offset TDD	М		9.2.3.61	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.69	
>E-DCH Grant TypeTDD	М		9.2.3.53	
>E-DCH Logical Channel Information	М		9.2.1.71	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.61a	Mandatory for LCR TDD. Not applicable for 3.84Mcps TDD and 7.68Mcps TDD.

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

#### 9.2.3.48 E-DCH Non-scheduled Grant Information TDD

The E-DCH Non-scheduled Grant Information TDD IE is used to specify the details of a non-scheduled grant for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.54	
Power Resource Related Information	М		9.2.3.55	
Repetition Period	М		9.2.3.16	
Repetition Length	Μ		9.2.3.15	
TDD E-PUCH Offset	Μ		9.2.3.56	
TDD Channelisation Code	М		9.2.3.19	

#### 9.2.3.48a E-DCH Non-scheduled Grant Information LCR TDD

Only for 1.28Mcps TDD. The *E-DCH Non-scheduled Grant Information LCR TDD* IE is used to specify the details of a non-scheduled grant for 1.28Mcps TDD.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Timeslot Resource Related Information LCR	М		9.2.3.54a		_	
Power Resource Related Information	М		9.2.3.55		_	
Repetition Period	М		9.2.3.16		_	
Repetition Length	М		9.2.3.15		_	
Subframe Number	М		ENUMERA TED ( 0,1)	Used to indicate from which subframe of the Radio Frame indicated by <i>TDD E-PUCH</i> <i>Offset</i> IE the physical resources are assigned to the E-DCH Non- scheduled Grant.	_	
TDD E-PUCH Offset	М		9.2.3.56		_	
TDD Channelisation Code	Μ		9.2.3.19		—	
Ne-ucch	М		INTEGER (18)	Number of E- UCCH and TPC instances within an E-DCH TTI. Details are described in [19].	-	
E-HICH Information		1				
>E-HICH ID TDD	М		9.2.3.51a	If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored.	_	
>Signature Sequence Group Index	М		INTEGER (019)		-	
>Extended E-HICH ID TDD	0		9.2.3.51b	Applicable to 1.28Mcps TDD only, the <i>Extended E-</i> <i>HICH ID TDD</i> IE shall be used if the E-HICH identity has a value larger than 31.	YES	ignore

# 9.2.3.49 E-DCH TDD Information

The *E-DCH TDD Information* specifies the details of the maximum bit rate and processing overload level.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate	0		9.2.3.57	
E-DCH Processing Overload Level	0		9.2.1.79	
E-DCH Power Offset for Scheduling Info	0		9.2.1.85	

## 9.2.3.49a E-DCH TDD Information LCR

Only for 1.28Mcps TDD. The *E-DCH TDD Information LCR* IE specifies the details of the UE physical layer category, Node B processing overload level and power offset, Maximum Number of Retransmission and E-DCH Retransmission timer for scheduling info.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Physical Layer Category LCR	0		9.2.3.67	If the Extended E-DCH Physical Layer Category LCR IE is included in the E-DCH TDD Information LCR IE, the E-DCH Physical Layer Category LCR IE shall be ignored.	_	
E-DCH Processing Overload Level	0		9.2.1.79		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.85		-	
Extended E-DCH Physical Layer Category LCR	0		9.2.3.67A	The Extended E- DCH Physical Layer Category LCR IE shall be used if the E- DCH Physical Layer Category has a value larger than 5.	YES	reject
Maximum Number of Retransmission for Scheduling Info LCR	0		Maximum Number of Retransmissi on for E-DCH 9.2.1.81		YES	ignore
E-DCH Retransmission timer for Scheduling Info LCR	0		E-DCH MAC- d Flow Retransmissi on Timer 9.2.3.61a		YES	ignore

### 9.2.3.50 E-DCH TDD Information Response

The *E-DCH TDD Information Response* IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH TDD MAC-d Flow Specific Information Response		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.74		_	
>Binding ID	0		9.2.1.4		_	
>Transport Layer Address	0		9.2.1.63		-	
E-AGCH Specific Information Response TDD		0 <maxno OfEAGCH codes&gt;</maxno 			_	
>E-AGCH ID TDD	Μ		9.2.3.51		_	
E-RNTI	М		9.2.1.75		_	
Scheduled E-HICH Specific Information Response 1.28Mcps TDD		0 <maxno OfEHICHc odes&gt;</maxno 		1.28Mcps TDD only	_	
>EI	М		INTEGER (03)	E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried.	_	
>E-HICH ID TDD	M		9.2.3.51a	If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored.	_	
>Extended E-HICH ID TDD	0		9.2.3.51b	Applicable to 1.28Mcps TDD only, the <i>Extended E-</i> <i>HICH ID TDD</i> IE shall be used if the E-HICH identity has a value larger than 31.	YES	ignore

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE
maxNoOfEHICHcodes	Maximum number of E-HICHs assigned to one UE

# 9.2.3.51 E-AGCH ID TDD

The E-AGCH ID identifies unambiguously an E-AGCH inside a cell for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-AGCH ID			INTEGER (031,,32255)	

### 9.2.3.51a E-HICH ID TDD

The E-HICH ID TDD IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH ID TDD			INTEGER (031)	

#### 9.2.3.51b Extended E-HICH ID TDD

The Extended E-HICH ID TDD IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended E-HICH ID TDD			INTEGER (32255)	

# 9.2.3.52 E-DCH TDD Information to Modify

The *E-DCH TDD Information to Modify* IE is used for the modification of an E-DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 		
>E-DCH MAC-d Flow ID	Μ		9.2.1.74	
>Allocation/Retention Priority	0		9.2.1.1A	
>Transport Bearer Request Indicator	М		9.2.1.62A	
>Binding ID	0		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address	0		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.
>TNL QoS	0		9.2.1.58A	
>Maximum Number Of Retransmissions for E-DCH	0		9.2.1.81	
>E-DCH HARQ Power Offset TDD	0		9.2.3.61	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.69	
>E-DCH Grant Type	0		9.2.3.53	
>E-DCH Logical Channel To Add	0		E-DCH Logical Channel Information 9.2.1.71	
>E-DCH Logical Channel To Modify	0		9.2.1.72	
>E-DCH Logical Channel		0 <maxno< td=""><td></td><td></td></maxno<>		
To Delete		oflogicalch annels>		
>>Logical Channel ID	М		9.2.1.80	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.61a	LCR TDD only.
MAC-e Reset Indicator	0		9.2.1.83	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows
maxnooflogicalchannels	Maximum number of logical channels

# 9.2.3.53 E-DCH Grant Type TDD

The E-DCH Grant Type identifies whether a MAC-d flow is scheduled or non-scheduled.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Grant Type			ENUMERATED	
			(Scheduled, Non-	
			scheduled)	

#### 9.2.3.54 Timeslot Resource Related Information

The *Timeslot Resource Related Information* is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information			BIT STRING (13)	

#### 9.2.3.54a Timeslot Resource Related Information LCR

Only for 1.28Mcps TDD. The *Timeslot Resource Related Information LCR* IE is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information LCR			BIT STRING (5)	

#### 9.2.3.55 Power Resource Related Information

The *Power Resource Related Information* specifies the maximum allowed E-PUCH power resource (dB relative to  $P_{e-base}$ ) that the UE may use for non-scheduled transmissions.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Resource Related Information			INTEGER (132)	

### 9.2.3.56 E-PUCH Offset

The E-PUCH Offset represents the CFN offset at which a non-scheduled E-DCH grant begins.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-PUCH Offset			INTEGER (0255)	

#### 9.2.3.57 E-DCH TDD Maximum Bitrate

The E-DCH TDD Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH in TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate			INTEGER (09201,)	Bitrate on transport block level. Unit is kbits per second.

#### 9.2.3.58 LTGI Presence

The *LTGI Presence* indicates to the Node B whether it shall use the Long Term Grant Indicator within E-DCH grants issued in a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
LTGI Indicator			BOOLEAN	True = LTGI shall be included

#### 9.2.3.59 E-HICH Time Offset

The *E-HICH Time Offset* ( aka n<sub>E-HICH</sub> [19]) is determined by the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Time Offset			INTEGER (444)	

### 9.2.3.59a E-HICH Time Offset LCR

Only for 1.28Mcps TDD. The *E-HICH Time Offset LCR* IE(aka n<sub>E-HICH</sub> [19])is determined by the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Time Offset LCR			INTEGER (415)	

#### 9.2.3.60 E-DCH TDD Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the number of E-AGCH.

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Physical Shared Channel Reconfiguration.

When one are more radio links have been configured to use E-DCH (via Radio Link Setup, Radio Link Addition or radio link reconfiguration procedures) the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure that removes the last radio link configured for E-DCH.

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Cost	Μ		INTEGER (065535)	Cost per timeslot of the E- DCH. If not present, zero cost shall be applied.
DL Cost	0		INTEGER (065535)	Cost per E-AGCH or E-HICH configured. If not present, zero cost shall be applied.

### 9.2.3.61 E-DCH HARQ Power Offset TDD

The E-DCH HARQ Power Offset TDD is the power offset measured in dB.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH HARQ Power Offset TDD			INTEGER (06)	

# 9.2.3.61a E-DCH MAC-d Flow Retransmission Timer

Only for 1.28Mcps TDD. The *E-DCH MAC-d Flow Retransmission Timer* IE is used in the E-DCH retransmission control as defined in [32].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow Retransmission Timer			ENUMERATED (10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 140, 160, 200, 240, 280, 320, 400, 480, 560,)	Unit: ms Node B may use this value to stop the re-transmission of the corresponding MAC-e PDU.

# 9.2.3.62 SNPL Reporting Type

The *SNPL Reporting Type* indicates to the Node B whether the UEs in a cell shall use the type 1 or type 2 Serving and Neighbour Cell Pathloss metric [21].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SNPL Reporting Type			ENUMERATED (type1, type2)	

# 9.2.3.63 Maximum Generated Received Total Wide Band Power in Other Cells

The *Maximum Generated Received Total Wide Band Power in Other Cells* indicates the maximum aggregate UL interference that may be generated from scheduled transmissions into other (non-serving) cells.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Generated Received Total Wide Band Power in Other Cells			INTEGER (0621)	The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in [23].

# 9.2.3.64 E-DCH Non-scheduled Grant Information 7.68Mcps TDD

The *E-DCH Non-scheduled Grant Information 7.68Mcps TDD* IE is used to specify the details of a non-scheduled grant for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.54	
Power Resource Related Information	М		9.2.3.55	
Repetition Period	М		9.2.3.16	
Repetition Length	М		9.2.3.15	
TDD E-PUCH Offset	M		9.2.3.56	
TDD Channelisation Code 7.68Mcps	М		9.2.3.34	

### 9.2.3.65 E-DCH TDD Information 7.68Mcps

The *E-DCH TDD Information* 7.68*Mcps* specifies the details of the maximum bit rate and processing overload level for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate 7.68Mcps	0		9.2.3.66	
E-DCH Processing Overload Level	0		9.2.1.79	
E-DCH Power Offset for Scheduling Info	0		9.2.1.85	

#### 9.2.3.66 E-DCH TDD Maximum Bitrate 7.68Mcps

The *E-DCH TDD Maximum Bitrate* 7.68*Mcps* parameter indicates the Maximum Bitrate for an E-DCH in 7.68Mcps TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH TDD Maximum Bitrate 7.68Mcps			INTEGER (017713,)	Bitrate on transport block level. Unit is kbits per second.

# 9.2.3.67 E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The *E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Physical Layer Category LCR			INTEGER(15)	As defined in [33]

# 9.2.3.67A Extended E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The *Extended E-DCH Physical Layer Category LCR* IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended E-DCH Physical Layer Category LCR			INTEGER(6,)	As defined in [33]

### 9.2.3.68 E-HICH Type

The *E-HICH Type* IE identifies whether a E-HICH is scheduled or non-scheduled inside a cell for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Type			ENUMERATED (	
			Scheduled, Non-	
			scheduled)	

### 9.2.3.69 Maximum Target Received Total Wide Band Power LCR

The *Maximum Target Received Total Wide Band Power LCR* indicates the maximum target UL interference for a certain cell under CRNC, including received wide band power from all sources.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Target Received Total Wide Band Power LCR			INTEGER (0621)	The Value mapping is according to mapping for measurement type "Received Total Wide Band Power" in [23].

#### 9.2.3.70 MBSFN Only Mode Indicator

The MBSFN only mode indicator indicates from CRNC to the Node B whether the cell is setup for MBSFN only mode for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBSFN Only Mode Indicator			ENUMERATED ( MBSFN Only Mode)	

# 9.2.3.71 MBSFN Only Mode Capability

This parameter defines the MBSFN only mode capability for a local cell for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MBSFN Only Mode Capability			ENUMERATED ( MBSFN Only Mode capable, MBSFN Only Mode non capable)	

### 9.2.3.72 MAC-es Maximum Bit Rate LCR

The MAC-es Maximum Bit Rate LCR IE indicates the maximum number of bits per second to be delivered over the air interface.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-es Maximum Bit Rate			INTEGER (0	Unit: bit/s
LCR			256,000,000,	
			)	

9.2.3.73 UE Selected MBMS Service Information								
IE/Grou	p Name	Presence	Range	IE Type and	Semantics Description	Ī		

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Status	0					
>None			NULL			
>Some						
>>Selected MBMS Service List		1MaxMB MSService Select				
>>>Selected MBMS Service Time Slot Information LCR	M	07		This IE indicates the Time Slot information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. Mandatory if the IE UE Selected MBMS Service Action set to Selected. Otherwise optional.		
>>>>Time Slot LCR	М		9.2.3.24A		_	
>>>MBMS Service TDM Information		01		Indicating the MBMS service TDM Information		
>>>> Transmission Time Interval	М		ENUMER ATED (10, 20, 40, 80,)	Unit: ms		
>>>>TDM_Rep	М		Integer (29)			
>>>>TDM_Offset	М		Integer (08)			
>>>>TDM_Length	М		Integer (18)			

# 9.3 Message and Information Element Abstract Syntax (with ASN.1)

# 9.3.0 General

Subclause 9.3 presents the Abstract Syntax of NBAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this subclause and the tabular format in subclauses 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of NBAP messages. NBAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a NBAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a NBAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in subclause 10.3.6.

# 9.3.1 Usage of Private Message mechanism for non-standard use

The private message mechanism for non-standard use may be used.

- For special operator- (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multi-vendor inter-operability.
- By vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation.

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

# 9.3.2 Elementary Procedure Definitions

-- Elementary Procedure definitions

\*\*\*\*\*\*

NBAP-PDU-Descriptions {

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itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- IE parameter types from other modules. - -\*\*\*\*\*\*\*\*\* - -IMPORTS Criticality, ProcedureID, MessageDiscriminator, TransactionID FROM NBAP-CommonDataTypes CommonTransportChannelSetupRequestFDD, CommonTransportChannelSetupRequestTDD, CommonTransportChannelSetupResponse, CommonTransportChannelSetupFailure, CommonTransportChannelReconfigurationRequestFDD, CommonTransportChannelReconfigurationReguestTDD, CommonTransportChannelReconfigurationResponse, CommonTransportChannelReconfigurationFailure, CommonTransportChannelDeletionRequest, CommonTransportChannelDeletionResponse, BlockResourceRequest, BlockResourceResponse, BlockResourceFailure, UnblockResourceIndication, AuditFailure, AuditRequiredIndication, AuditRequest, AuditResponse, CommonMeasurementInitiationRequest, CommonMeasurementInitiationResponse, CommonMeasurementInitiationFailure, CommonMeasurementReport, CommonMeasurementTerminationRequest, CommonMeasurementFailureIndication, CellSetupRequestFDD, CellSetupRequestTDD, CellSetupResponse, CellSetupFailure, CellReconfigurationReguestFDD, CellReconfigurationReguestTDD, CellReconfigurationResponse, CellReconfigurationFailure, CellDeletionRequest, CellDeletionResponse,

InformationExchangeInitiationReguest, InformationExchangeInitiationResponse, InformationExchangeInitiationFailure, InformationReport, InformationExchangeTerminationReguest, InformationExchangeFailureIndication, BearerRearrangementIndication, ResourceStatusIndication, SystemInformationUpdateRequest, SystemInformationUpdateResponse, SystemInformationUpdateFailure, ResetRequest, ResetResponse, RadioLinkActivationCommandFDD. RadioLinkActivationCommandTDD, RadioLinkPreemptionRequiredIndication, RadioLinkSetupRequestFDD, RadioLinkSetupRequestTDD, RadioLinkSetupResponseFDD, RadioLinkSetupResponseTDD, RadioLinkSetupFailureFDD, RadioLinkSetupFailureTDD, RadioLinkAdditionRequestFDD, RadioLinkAdditionRequestTDD, RadioLinkAdditionResponseFDD, RadioLinkAdditionResponseTDD, RadioLinkAdditionFailureFDD, RadioLinkAdditionFailureTDD, RadioLinkParameterUpdateIndicationFDD, RadioLinkParameterUpdateIndicationTDD, RadioLinkReconfigurationPrepareFDD, RadioLinkReconfigurationPrepareTDD, RadioLinkReconfigurationReady, RadioLinkReconfigurationFailure, RadioLinkReconfigurationCommit, RadioLinkReconfigurationCancel, RadioLinkReconfigurationRequestFDD, RadioLinkReconfigurationReguestTDD, RadioLinkReconfigurationResponse, RadioLinkDeletionRequest, RadioLinkDeletionResponse, DL-PowerControlRequest, DL-PowerTimeslotControlRequest, DedicatedMeasurementInitiationRequest, DedicatedMeasurementInitiationResponse, DedicatedMeasurementInitiationFailure, DedicatedMeasurementReport, DedicatedMeasurementTerminationRequest, DedicatedMeasurementFailureIndication, RadioLinkFailureIndication, RadioLinkRestoreIndication, CompressedModeCommand, ErrorIndication,

PrivateMessage,

PhysicalSharedChannelReconfigurationRequestTDD, PhysicalSharedChannelReconfigurationReguestFDD, PhysicalSharedChannelReconfigurationResponse, PhysicalSharedChannelReconfigurationFailure, CellSynchronisationInitiationReguestTDD, CellSynchronisationInitiationResponseTDD, CellSynchronisationInitiationFailureTDD, CellSynchronisationReconfigurationRequestTDD, CellSynchronisationReconfigurationResponseTDD, CellSynchronisationReconfigurationFailureTDD, CellSynchronisationAdjustmentRequestTDD, CellSynchronisationAdjustmentResponseTDD, CellSynchronisationAdjustmentFailureTDD, CellSynchronisationReportTDD, CellSynchronisationTerminationReguestTDD, CellSynchronisationFailureIndicationTDD, MBMSNotificationUpdateCommand FROM NBAP-PDU-Contents id-audit, id-auditRequired, id-blockResource, id-cellDeletion, id-cellReconfiguration, id-cellSetup, id-cellSynchronisationInitiation, id-cellSynchronisationReconfiguration, id-cellSynchronisationReporting, id-cellSynchronisationTermination, id-cellSynchronisationFailure, id-commonMeasurementFailure, id-commonMeasurementInitiation, id-commonMeasurementReport, id-commonMeasurementTermination, id-commonTransportChannelDelete, id-commonTransportChannelReconfigure, id-commonTransportChannelSetup, id-compressedModeCommand, id-dedicatedMeasurementFailure, id-dedicatedMeasurementInitiation, id-dedicatedMeasurementReport, id-dedicatedMeasurementTermination, id-downlinkPowerControl. id-downlinkPowerTimeslotControl, id-errorIndicationForDedicated, id-errorIndicationForCommon, id-informationExchangeFailure, id-informationExchangeInitiation, id-informationReporting, id-informationExchangeTermination, id-BearerRearrangement, id-mBMSNotificationUpdate, id-physicalSharedChannelReconfiguration,

**ETSI** 

id-privateMessageForCommon, id-radioLinkActivation, id-radioLinkAddition. id-radioLinkDeletion, id-radioLinkFailure, id-radioLinkParameterUpdate, id-radioLinkPreemption, id-radioLinkRestoration, id-radioLinkSetup, id-reset, id-resourceStatusIndication, id-cellSynchronisationAdjustment, id-synchronisedRadioLinkReconfigurationCancellation, id-synchronisedRadioLinkReconfigurationCommit, id-synchronisedRadioLinkReconfigurationPreparation, id-systemInformationUpdate, id-unblockResource, id-unSynchronisedRadioLinkReconfiguration FROM NBAP-Constants; - --- Interface Elementary Procedure Class - -NBAP-ELEMENTARY-PROCEDURE ::= CLASS { &InitiatingMessage &SuccessfulOutcome OPTIONAL, &UnsuccessfulOutcome OPTIONAL, &Outcome OPTIONAL, &messageDiscriminator MessageDiscriminator, &procedureID ProcedureID UNIQUE, &criticality Criticality DEFAULT iqnore } WITH SYNTAX { INITIATING MESSAGE &InitiatingMessage &SuccessfulOutcome] [SUCCESSFUL OUTCOME [UNSUCCESSFUL OUTCOME &UnsuccessfulOutcome] &Outcome] [OUTCOME MESSAGE DISCRIMINATOR &messageDiscriminator PROCEDURE ID &procedureID [CRITICALITY &criticality] - --- Interface PDU Definition - -- -

NBAP-PDU ::= CHOICE {
 initiatingMessage InitiatingMessage,

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```
succesfulOutcome
                          SuccessfulOutcome,
    unsuccesfulOutcome
                           UnsuccessfulOutcome.
    outcome
                          Out.come.
    . . .
InitiatingMessage ::= SEQUENCE
   procedureID
                          NBAP-ELEMENTARY-PROCEDURE.&procedureID
                                                                ({NBAP-ELEMENTARY-PROCEDURES}),
   criticality
                          NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   messageDiscriminator
                          NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                          TransactionID,
                          NBAP-ELEMENTARY-PROCEDURE.&InitiatingMessage({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
SuccessfulOutcome ::= SEQUENCE
   procedureID
                          NBAP-ELEMENTARY-PROCEDURE.&procedureID
                                                                 ({NBAP-ELEMENTARY-PROCEDURES}),
                          NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality
                          NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   messageDiscriminator
    transactionID
                          TransactionID,
                          NBAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
UnsuccessfulOutcome ::= SEQUENCE
                                                                ({NBAP-ELEMENTARY-PROCEDURES}),
   procedureID
                          NBAP-ELEMENTARY-PROCEDURE.&procedureID
                          NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   criticality
   messageDiscriminator
                          NBAP-ELEMENTARY-PROCEDURE. & messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID
                          TransactionID,
                          NBAP-ELEMENTARY-PROCEDURE. & UnsuccessfulOutcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
Outcome ::= SEQUENCE {
   procedureID
                          NBAP-ELEMENTARY-PROCEDURE.&procedureID ({NBAP-ELEMENTARY-PROCEDURES}),
   criticality
                          NBAP-ELEMENTARY-PROCEDURE.&criticality ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
                          NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   messageDiscriminator
   transactionID
                          TransactionID,
                          NBAP-ELEMENTARY-PROCEDURE.&Outcome ({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
     ******
_ _
  Interface Elementary Procedure List
- -
     NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= {
   NBAP-ELEMENTARY-PROCEDURES-CLASS-1
   NBAP-ELEMENTARY-PROCEDURES-CLASS-2
    . . .
}
NBAP-ELEMENTARY-PROCEDURES-CLASS-1 NBAP-ELEMENTARY-PROCEDURE ::= {
    cellSetupFDD
    cellSetupTDD
    cellReconfigurationFDD
```

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cellReconfigurationTDD cellDeletion commonTransportChannelSetupFDD commonTransportChannelSetupTDD commonTransportChannelReconfigureFDD commonTransportChannelReconfigureTDD commonTransportChannelDelete audit blockResource radioLinkSetupFDD radioLinkSetupTDD systemInformationUpdate commonMeasurementInitiation radioLinkAdditionFDD radioLinkAdditionTDD radioLinkDeletion reset synchronisedRadioLinkReconfigurationPreparationFDD synchronisedRadioLinkReconfigurationPreparationTDD unSynchronisedRadioLinkReconfigurationFDD unSynchronisedRadioLinkReconfigurationTDD dedicatedMeasurementInitiation physicalSharedChannelReconfigurationTDD ..., informationExchangeInitiation cellSynchronisationInitiationTDD cellSynchronisationReconfigurationTDD cellSynchronisationAdjustmentTDD physicalSharedChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURES-CLASS-2 NBAP-ELEMENTARY-PROCEDURE ::= { resourceStatusIndication auditRequired commonMeasurementReport commonMeasurementTermination commonMeasurementFailure synchronisedRadioLinkReconfigurationCommit synchronisedRadioLinkReconfigurationCancellation radioLinkFailure radioLinkPreemption radioLinkRestoration dedicatedMeasurementReport dedicatedMeasurementTermination dedicatedMeasurementFailure downlinkPowerControlFDD downlinkPowerTimeslotControl compressedModeCommand unblockResource errorIndicationForDedicated errorIndicationForCommon privateMessageForDedicated privateMessageForCommon

...,

}

informationReporting informationExchangeTermination informationExchangeFailure cellSynchronisationReportingTDD cellSynchronisationTerminationTDD cellSynchronisationFailureTDD bearerRearrangement radioLinkActivationFDD radioLinkActivationTDD radioLinkParameterUpdateFDD radioLinkParameterUpdateTDD mBMSNotificationUpdate \*\*\*\*\*\*\* \_ \_ - -Interface Elementary Procedures \_ \_ -- Class 1 -- \*\*\* CellSetup (FDD) \*\*\* cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= { CellSetupRequestFDD INITIATING MESSAGE SUCCESSFUL OUTCOME CellSetupResponse CellSetupFailure UNSUCCESSFUL OUTCOME MESSAGE DISCRIMINATOR common { procedureCode id-cellSetup, ddMode fdd } PROCEDURE ID CRITICALITY reject } -- \*\*\* CellSetup (TDD) \*\*\* cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= { CellSetupRequestTDD INITIATING MESSAGE CellSetupResponse SUCCESSFUL OUTCOME UNSUCCESSFUL OUTCOME CellSetupFailure MESSAGE DISCRIMINATOR common { procedureCode id-cellSetup, ddMode tdd } PROCEDURE ID CRITICALITY reject } -- \*\*\* CellReconfiguration(FDD) \*\*\* cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE CellReconfigurationRequestFDD CellReconfigurationResponse SUCCESSFUL OUTCOME CellReconfigurationFailure UNSUCCESSFUL OUTCOME MESSAGE DISCRIMINATOR common PROCEDURE ID { procedureCode id-cellReconfiguration, ddMode fdd CRITICALITY reject } -- \*\*\* CellReconfiguration(TDD) \*\*\* cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {

```
CellReconfigurationRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CellReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CellReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-cellReconfiguration, ddMode tdd
    CRITICALITY
                            reject
-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellDeletionRequest
    SUCCESSFUL OUTCOME
                            CellDeletionResponse
    MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-cellDeletion, ddMode common }
                            reject
    CRITICALITY
3
-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::=
                            CommonTransportChannelSetupRequestFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelSetupResponse
                            CommonTransportChannelSetupFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelSetup, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelSetupRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelSetupResponse
                            CommonTransportChannelSetupFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-commonTransportChannelSetup, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonTransportChannelReconfigurationReguestFDD
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
                            common
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
    CRITICALITY
                            reject
-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonTransportChannelReconfigurationReguestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            CommonTransportChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-commonTransportChannelReconfigure, ddMode tdd
    PROCEDURE ID
```

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CRITICALITY reject } -- \*\*\* CommonTransportChannelDelete \*\*\* commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= { CommonTransportChannelDeletionReguest INITIATING MESSAGE CommonTransportChannelDeletionResponse SUCCESSFUL OUTCOME MESSAGE DISCRIMINATOR common PROCEDURE ID { procedureCode id-commonTransportChannelDelete, ddMode common } CRITICALITY reject -- \*\*\* Audit \*\*\* audit NBAP-ELEMENTARY-PROCEDURE ::= { AuditRequest INITIATING MESSAGE SUCCESSFUL OUTCOME AuditResponse AuditFailure UNSUCCESSFUL OUTCOME common MESSAGE DISCRIMINATOR { procedureCode id-audit, ddMode common } PROCEDURE ID CRITICALITY reject -- \*\*\* BlockResourceRequest \*\*\* blockResource NBAP-ELEMENTARY-PROCEDURE ::= { BlockResourceRequest INITIATING MESSAGE SUCCESSFUL OUTCOME BlockResourceResponse BlockResourceFailure UNSUCCESSFUL OUTCOME MESSAGE DISCRIMINATOR common { procedureCode id-blockResource, ddMode common } PROCEDURE ID CRITICALITY reject ٦ -- \*\*\* RadioLinkSetup (FDD) \*\*\* radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= { RadioLinkSetupRequestFDD INITIATING MESSAGE RadioLinkSetupResponseFDD SUCCESSFUL OUTCOME UNSUCCESSFUL OUTCOME RadioLinkSetupFailureFDD MESSAGE DISCRIMINATOR common { procedureCode id-radioLinkSetup, ddMode fdd } PROCEDURE ID CRITICALITY reject } -- \*\*\* RadioLinkSetup (TDD) \*\*\* radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE RadioLinkSetupRequestTDD RadioLinkSetupResponseTDD SUCCESSFUL OUTCOME UNSUCCESSFUL OUTCOME RadioLinkSetupFailureTDD MESSAGE DISCRIMINATOR common { procedureCode id-radioLinkSetup, ddMode tdd } PROCEDURE ID CRITICALITY reject } -- \*\*\* SystemInformationUpdate \*\*\* systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {

```
SystemInformationUpdateRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            SystemInformationUpdateResponse
    UNSUCCESSFUL OUTCOME
                            SystemInformationUpdateFailure
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-systemInformationUpdate, ddMode common
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** Reset ***
reset NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResetRequest
    SUCCESSFUL OUTCOME
                            ResetResponse
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-reset, ddMode common }
    CRITICALITY
                            reject
-- *** CommonMeasurementInitiation ***
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonMeasurementInitiationRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            CommonMeasurementInitiationResponse
                            CommonMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
    CRITICALITY
                            reject
-- *** RadioLinkAddition (FDD) ***
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkAdditionRequestFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionResponseFDD
                            RadioLinkAdditionFailureFDD
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-radioLinkAddition, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** RadioLinkAddition (TDD) ***
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkAdditionRequestTDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureTDD
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkAddition, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
}
                            ***
-- *** RadioLinkDeletion
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkDeletionRequest
    SUCCESSFUL OUTCOME
                            RadioLinkDeletionResponse
   MESSAGE DISCRIMINATOR
                            dedicated
```

```
PROCEDURE ID
                            { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY
                            reject
-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareFDD
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationReadv
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            reject
}
-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkReconfigurationPrepareTDD
    INITIATING MESSAGE
                            RadioLinkReconfigurationReady
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    CRITICALITY
                            reject
}
-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= ·
    INITIATING MESSAGE
                            RadioLinkReconfigurationReguestFDD
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationResponse
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                            dedicated
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                            reject
-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= ·
    INITIATING MESSAGE
                            RadioLinkReconfigurationRequestTDD
                            RadioLinkReconfigurationResponse
    SUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** DedicatedMeasurementInitiation ***
dedicatedMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementInitiationReguest
    SUCCESSFUL OUTCOME
                            DedicatedMeasurementInitiationResponse
                            DedicatedMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
```

```
-- *** PhysicalSharedChannelReconfiguration (FDD) ***
physicalSharedChannelReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalSharedChannelReconfigurationReguestFDD
    SUCCESSFUL OUTCOME PhysicalSharedChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            PhysicalSharedChannelReconfigurationFailure
                            common
    MESSAGE DISCRIMINATOR
                        { procedureCode id-physicalSharedChannelReconfiguration, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                        reject
}
-- *** PhysicalSharedChannelReconfiguration (TDD) ***
physicalSharedChannelReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PhysicalSharedChannelReconfigurationReguestTDD
    SUCCESSFUL OUTCOME PhysicalSharedChannelReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                            PhysicalSharedChannelReconfigurationFailure
    MESSAGE DISCRIMINATOR
                            common
                        { procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                        reject
-- *** InformationExchangeInitiation ***
informationExchangeInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeInitiationReguest
    SUCCESSFUL OUTCOME
                            InformationExchangeInitiationResponse
    UNSUCCESSFUL OUTCOME
                            InformationExchangeInitiationFailure
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-informationExchangeInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
-- *** CellSynchronisationInitiation (TDD only) ***
cellSynchronisationInitiationTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE CellSynchronisationInitiationRequestTDD
    SUCCESSFUL OUTCOME CellSynchronisationInitiationResponseTDD
    UNSUCCESSFUL OUTCOME
                            CellSynchronisationInitiationFailureTDD
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                        { procedureCode id-cellSynchronisationInitiation, ddMode tdd }
    CRITICALITY
                        reject
-- *** CellSynchronisationReconfiguration (TDD only) ***
cellSynchronisationReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CellSynchronisationReconfigurationRequestTDD
    SUCCESSFUL OUTCOME CellSynchronisationReconfigurationResponseTDD
    UNSUCCESSFUL OUTCOME
                            CellSynchronisationReconfigurationFailureTDD
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                        { procedureCode id-cellSynchronisationReconfiguration, ddMode tdd }
    CRITICALITY
                        reject
-- *** CellSynchronisationAdjustment (TDD only) ***
cellSynchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE CellSynchronisationAdjustmentRequestTDD
    SUCCESSFUL OUTCOME CellSynchronisationAdjustmentResponseTDD
```

```
CellSynchronisationAdjustmentFailureTDD
    UNSUCCESSFUL OUTCOME
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                        { procedureCode id-cellSynchronisationAdjustment, ddMode tdd }
    CRITICALITY
                        reject
-- Class 2
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
                            ResourceStatusIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-resourceStatusIndication, ddMode common }
    CRITICALITY
                            ignore
}
-- *** AuditReguired ***
auditReguired NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            AuditRequiredIndication
                            common
    MESSAGE DISCRIMINATOR
    PROCEDURE ID
                            { procedureCode id-auditRequired, ddMode common }
    CRITICALITY
                            ignore
}
-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementReport
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-commonMeasurementReport, ddMode common
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementTerminationReguest
   MESSAGE DISCRIMINATOR
                           common
    PROCEDURE ID
                            { procedureCode id-commonMeasurementTermination, ddMode common
    CRITICALITY
                            ignore
-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
                            CommonMeasurementFailureIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                           common
                              procedureCode id-commonMeasurementFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** SynchronisedRadioLinkReconfigurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkReconfigurationCommit
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY
                            ignore
```

}

```
-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkReconfigurationCancel
                            dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkFailureIndication
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-radioLinkFailure, ddMode common
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** RadioLinkPreemption ***
radioLinkPreemption NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
    MESSAGE DISCRIMINATOR dedicated
                        { procedureCode id-radioLinkPreemption, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::=
                            RadioLinkRestoreIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-radioLinkRestoration, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DedicatedMeasurementReport
                           dedicated
    MESSAGE DISCRIMINATOR
                            { procedureCode id-dedicatedMeasurementReport, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** DedicatedMeasurementTermination ***
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
                            DedicatedMeasurementTerminationRequest
    INITIATING MESSAGE
   MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID
                            { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY
                            ignore
}
-- *** DedicatedMeasurementFailure ***
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            DedicatedMeasurementFailureIndication
    MESSAGE DISCRIMINATOR dedicated
```

```
{ procedureCode id-dedicatedMeasurementFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** DLPowerControl (FDD only) ***
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DL-PowerControlRequest
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY
                            ignore
-- *** DLPowerTimeslotControl (TDD only) ***
downlinkPowerTimeslotControl NBAP-ELEMENTARY-PROCEDURE ::=
                            DL-PowerTimeslotControlRequest
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                           dedicated
                            { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
J
-- *** CompressedModeCommand (FDD only) ***
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
                            CompressedModeCommand
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
    PROCEDURE ID
                            { procedureCode id-compressedModeCommand, ddMode fdd }
    CRITICALITY
                            ignore
3
-- *** UnblockResourceIndication ***
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            UnblockResourceIndication
   MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-unblockResource, ddMode common
    CRITICALITY
                            ignore
-- *** ErrorIndication for Dedicated procedures ***
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::=
                            ErrorIndication
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            dedicated
                            { procedureCode id-errorIndicationForDedicated, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ErrorIndication
   MESSAGE DISCRIMINATOR common
    PROCEDURE ID
                            { procedureCode id-errorIndicationForCommon, ddMode common }
    CRITICALITY
                            ignore
}
-- *** CellSynchronisationReporting (TDD only) ***
cellSynchronisationReportingTDD NBAP-ELEMENTARY-PROCEDURE ::= {
```

```
INITIATING MESSAGE
                            CellSynchronisationReportTDD
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                              procedureCode id-cellSynchronisationReporting, ddMode tdd }
    CRITICALITY
                            ignore
-- *** CellSynchronisationTermination (TDD only) ***
cellSynchronisationTerminationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CellSynchronisationTerminationRequestTDD
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-cellSynchronisationTermination, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** CellSynchronisationFailure (TDD only) ***
cellSynchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
                            CellSynchronisationFailureIndicationTDD
    INITIATING MESSAGE
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-cellSynchronisationFailure, ddMode tdd
    CRITICALITY
                            ignore
-- *** PrivateMessage for Dedicated procedures ***
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR
                            dedicated
                              procedureCode id-privateMessageForDedicated, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
J
-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            PrivateMessage
    MESSAGE DISCRIMINATOR
                            common
    PROCEDURE ID
                            { procedureCode id-privateMessageForCommon, ddMode common
    CRITICALITY
                            ignore
}
-- *** InformationReporting ***
informationReporting NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationReport
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-informationReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
-- *** InformationExchangeTermination ***
informationExchangeTermination NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeTerminationReguest
    MESSAGE DISCRIMINATOR
                            common
                            { procedureCode id-informationExchangeTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
```

-- \*\*\* InformationExchangeFailure \*\*\* informationExchangeFailure NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE InformationExchangeFailureIndication MESSAGE DISCRIMINATOR common PROCEDURE ID { procedureCode id-informationExchangeFailure, ddMode common } CRITICALITY ignore -- \*\*\* BearerRearrangement \*\*\* bearerRearrangement NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE BearerRearrangementIndication MESSAGE DISCRIMINATOR dedicated PROCEDURE ID { procedureCode id-BearerRearrangement, ddMode common } CRITICALITY ignore } -- \*\*\* RadioLinkActivation (FDD) \*\*\* radioLinkActivationFDD NBAP-ELEMENTARY-PROCEDURE ::= INITIATING MESSAGE RadioLinkActivationCommandFDD dedicated MESSAGE DISCRIMINATOR PROCEDURE ID { procedureCode id-radioLinkActivation, ddMode fdd CRITICALITY ignore } -- \*\*\* RadioLinkActivation (TDD) \*\*\* radioLinkActivationTDD NBAP-ELEMENTARY-PROCEDURE ::= { RadioLinkActivationCommandTDD INITIATING MESSAGE MESSAGE DISCRIMINATOR dedicated { procedureCode id-radioLinkActivation, ddMode tdd } PROCEDURE ID CRITICALITY ignore 3 -- \*\*\* RadioLinkParameterUpdate (FDD) \*\*\* radioLinkParameterUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE RadioLinkParameterUpdateIndicationFDD MESSAGE DISCRIMINATOR dedicated PROCEDURE ID { procedureCode id-radioLinkParameterUpdate, ddMode fdd } CRITICALITY ignore -- \*\*\* RadioLinkParameterUpdate (TDD) \*\*\* radioLinkParameterUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE RadioLinkParameterUpdateIndicationTDD MESSAGE DISCRIMINATOR dedicated PROCEDURE ID { procedureCode id-radioLinkParameterUpdate, ddMode tdd } CRITICALITY ignore } -- \*\*\* MBMSNotificationUpdate \*\*\* mBMSNotificationUpdate NBAP-ELEMENTARY-PROCEDURE ::= { INITIATING MESSAGE MBMSNotificationUpdateCommand MESSAGE DISCRIMINATOR common PROCEDURE ID procedureCode id-mBMSNotificationUpdate, ddMode common } CRITICALITY ignore

}

END

# 9.3.3 PDU Definitions

- --- PDU definitions for NBAP. - -NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN - --- IE parameter types from other modules. - -IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, AlternativeFormatReportingIndicator, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, BroadcastReference, SCTD-Indicator. Cause, CCTrCH-ID, CellParameterID, CellPortionID, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN, ChipOffset,

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C-ID,

Closedlooptimingadjustmentmode, CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, Common-MACFlows-to-DeleteFDD. CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, CommonPhysicalChannelID768, Common-PhysicalChannel-Status-Information, Common-PhysicalChannel-Status-Information768, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, ContinuousPacketConnectivityDTX-DRX-Capability, ContinuousPacketConnectivityDTX-DRX-Information, ContinuousPacketConnectivityHS-SCCH-less-Capability, ContinuousPacketConnectivityHS-SCCH-less-Information, ContinuousPacketConnectivityHS-SCCH-less-Information-Response, CPC-Information, CriticalityDiagnostics, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-Indicator-For-E-DCH-HSDPA-Operation, DCH-InformationResponse, DCH-ID, FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-DPCH-TimingAdjustment, DL-or-Global-CapacityCredit, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DLPowerAveragingWindowSize, DL-PowerBalancing-UpdatedIndicator, DL-ScramblingCode, DL-TimeslotISCP,

DL-Timeslot-Information, DL-TimeslotLCR-Information. DL-TimeslotISCPInfo. DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DPCH-ID768. DSCH-ID, DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, E-AGCH-FDD-Code-Information, E-DCH-Capability, E-DCHCapacityConsumptionLaw, E-DCH-TTI2ms-Capability, E-DCH-SF-Capability, E-DCH-HARQ-Combining-Capability, E-DCH-FDD-DL-Control-Channel-Information, E-DCH-FDD-Information, E-DCH-FDD-Information-Response, E-DCH-FDD-Information-to-Modify, E-DCH-FDD-Update-Information, E-DCH-MACdFlow-ID, E-DCH-MACdFlows-Information, E-DCH-MACdFlows-to-Delete, E-DCH-RL-Indication, E-DCH-Serving-Cell-Change-Info-Response, E-DPCCH-PO, E-RGCH-E-HICH-FDD-Code-Information, E-RGCH-2-IndexStepThreshold, E-RGCH-3-IndexStepThreshold, End-Of-Audit-Sequence-Indicator, Enhanced-FACH-Capability, Enhanced-PCH-Capability, E-TFCS-Information, E-TTI, ExtendedPropagationDelay, Fast-Reconfiguration-Mode, Fast-Reconfiguration-Permission, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation. FDD-S-CCPCH-FrameOffset, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, F-DPCH-Capability, F-DPCH-SlotFormat, F-DPCH-SlotFormatCapability, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset,

HARQ-Info-for-E-DCH, HSDPA-Capability, HSDSCH-Common-System-InformationFDD, HSDSCH-Common-System-Information-ResponseFDD, HSDSCH-Configured-Indicator, HSDSCH-Paging-System-InformationFDD, HSDSCH-Paging-System-Information-ResponseFDD, HS-DSCH-Serving-Cell-Change-Info, HS-DSCH-Serving-Cell-Change-Info-Response, HSDSCH-MACdPDU-SizeCapability, HS-PDSCH-FDD-Code-Information, HS-SCCH-ID, HS-SCCH-FDD-Code-Information, HS-SICH-ID, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, IPDL-TDD-Parameters-LCR, IPMulticastIndication, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, Maximum-Target-ReceivedTotalWideBandPower, MaximumTransmissionPower, MaxNrOfUL-DPDCHs, Max-Set-E-DPDCHs, MaxPRACH-MidambleShifts, Max-UE-DTX-Cycle, MBMS-Capability, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MICH-CFN, MICH-Mode, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftAndBurstType768, MidambleShiftLCR, MinimumDL-PowerCapability, MinSpreadingFactor, MIMO-Capability, MIMO-PilotConfiguration,

MinUL-ChannelisationCodeLength, Modification-Period, MultiplexingPosition, NCyclesPerSFNperiod, NRepetitionsPerCyclePeriod, N-INSYNC-IND, N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NI-Information, NodeB-CommunicationContextID, NotificationIndicatorLength, NumberOfReportedCellPortions, NSubCyclesPerCyclePeriod, PagingIndicatorLength, Paging-MACFlows-to-DeleteFDD, PayloadCRC-PresenceIndicator, PCCPCH-Power, PDSCHSet-ID, PDSCH-ID, PDSCH-ID768, PICH-Mode, PICH-Power, PLCCHinformation, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold, PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, Primary-CPICH-Usage-for-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, OE-Selector, RACH-SlotFormat, RACH-SubChannelNumbers, Reference-ReceivedTotalWideBandPower, Reference-ReceivedTotalWideBandPowerReporting, Reference-ReceivedTotalWideBandPowerSupportIndicator, Maximum-Target-ReceivedTotalWideBandPower-LCR, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue,

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RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID. RL-ID, RL-Specific-DCH-Info, RL-Specific-E-DCH-Info, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber, Secondary-CPICH-Information-Change, SecondaryCCPCH-SlotFormat, Segment-Type, Serving-E-DCH-RL-ID, SixteenQAM-UL-Capability, SixtyfourOAM-DL-Capability, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality, ShutdownTimer. SIB-Originator, SpecialBurstScheduling, SignallingBearerReguestIndicator, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, E-DPCCH-Power-Boosting-Capability, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-ChannelisationCode768, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR,

TimeSlotDirection,

TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TnlOos, TOAWE. TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet, TransportLayerAddress, TSTD-Indicator, TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateQuality, TUTRANGPSQuality, UARFCN, UC-Id, USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat, UL-DPDCH-Indicator-For-E-DCH-Operation, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, PrimaryCCPCH-RSCP, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, TDD-TPC-UplinkStepSize-LCR,

CellSyncBurstTimingLCR, TimingAdjustmentValueLCR, PrimaryCCPCH-RSCP-Delta, SynchronisationIndicator, TDD-UL-Code-768-Information, UL-Timeslot768-Information, TDD-DL-Code-768-Information, DL-Timeslot768-Information, E-DCH-TDD-CapacityConsumptionLaw, E-DCH-Information, E-DCH-Information-Response, E-DCH-Information-Reconfig, LTGI-Presence, SNPL-Reporting-Type, E-AGCH-Id, E-HICH-TimeOffset, Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells, E-DCH-768-Information, E-DCH-768-Information-Reconfig, RTWP-ReportingIndicator, RTWP-CellPortion-ReportingIndicator, MAChs-ResetIndicator, E-DCH-LCR-Information, E-DCH-LCR-Information-Reconfig, E-HICH-ID-TDD, E-HICH-TimeOffsetLCR, E-HICH-Type, ModulationPO-MBSFN, Secondary-CCPCH-SlotFormat-Extended, ModulationMBSFN, MBSFN-Only-Mode-Indicator, MBSFN-Only-Mode-Capability, UPPCHPositionLCR, ControlGAP, Extended-HS-SICH-ID, Extended-HS-SCCH-ID, TimeslotLCR-Extension, Extended-E-HICH-ID-TDD, AdditionalTimeSlotListLCR, AdditionalMeasurementValueList, UE-Selected-MBMS-Service-Information, TimeSlotMeasurementValueListLCR, MIMO-PowerOffsetForS-CPICHCapability, MIMO-PilotConfigurationExtension, TxDiversityOnDLControlChannelsByMIMOUECapability, PrecodingWeightSetRestriction

FROM NBAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},

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ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}. NBAP-PRIVATE-IES. NBAP-PROTOCOL-IES. NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD, id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD, id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRgstTDD, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRgstFDD, id-AlternativeFormatReportingIndicator, id-BCH-Information, id-BCCH-ModificationTime, id-bindingID, id-BlockingPriorityIndicator, id-BroadcastReference, id-Cause. id-CauseLevel-PSCH-ReconfFailure, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD, id-CCTrCH-Initial-DL-Power-RL-SetupRgstTDD, id-CellAdjustmentInfo-SyncAdjustmntRgstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD, id-Cell-InformationItem-AuditRsp, id-Cell-InformationItem-ResourceStatusInd, id-Cell-InformationList-AuditRsp, id-CellParameterID, id-CellPortion-InformationItem-Cell-SetupRgstFDD, id-CellPortion-InformationList-Cell-SetupRqstFDD, id-CellPortion-InformationItem-Cell-ReconfRgstFDD, id-CellPortion-InformationList-Cell-ReconfRqstFDD, id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRgstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,

id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRgstTDD, id-CellSyncInfo-CellSyncReprtTDD. id-CFN. id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-Common-MACFlows-to-DeleteFDD, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-ContinuousPacketConnectivityDTX-DRX-Capability, id-ContinuousPacketConnectivitvDTX-DRX-Information, id-ContinuousPacketConnectivityHS-SCCH-less-Capability, id-ContinuousPacketConnectivityHS-SCCH-less-Information, id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response, id-CPC-Information, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRgstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-Indicator-For-E-DCH-HSDPA-Operation, id-DCH-InformationResponse, id-DCH-RearrangeList-Bearer-RearrangeInd, id-DSCH-RearrangeList-Bearer-RearrangeInd, id-FDD-DCHs-to-Modify, id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRgstFDD, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DelayedActivation, id-DelayedActivationList-RL-ActivationCmdFDD,

id-DelayedActivationList-RL-ActivationCmdTDD, id-DelayedActivationInformation-RL-ActivationCmdFDD. id-DelavedActivationInformation-RL-ActivationCmdTDD. id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRgstTDD, id-DL-DPCH-InformationList-RL-SetupRgstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-DPCH-TimingAdjustment, id-DL-DPCH-Power-Information-RL-ReconfPrepFDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-ReferencePowerInformationItem-DL-PC-Rgst, id-DL-PowerBalancing-UpdatedIndicator, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rgst, id-DL-TPC-Pattern01Count, id-DPC-Mode. id-DPCHConstant, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, id-DSCH-TDD-Information, id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code, id-E-AGCH-FDD-Code-Information, id-E-DCH-Capability, id-E-DCH-TTI2ms-Capability, id-E-DCH-SF-Capability, id-E-DCH-HARQ-Combining-Capability, id-E-DCH-FDD-DL-Control-Channel-Information, id-E-DCH-FDD-Information, id-E-DCH-FDD-Information-Response, id-E-DCH-FDD-Information-to-Modify, id-E-DCH-FDD-Update-Information, id-E-DCH-MACdFlows-to-Add, id-E-DCH-MACdFlows-to-Delete, id-E-DCH-RearrangeList-Bearer-RearrangeInd, id-E-DCH-Resources-Information-AuditRsp, id-E-DCH-Resources-Information-ResourceStatusInd,

id-E-DCH-RL-Indication, id-E-DCH-RL-Set-ID. id-E-DCH-Serving-Cell-Change-Info-Response, id-E-DCH-CapacityConsumptionLaw, id-E-DPCH-Information-RL-ReconfPrepFDD, id-E-DPCH-Information-RL-ReconfRgstFDD, id-E-DPCH-Information-RL-SetupRqstFDD, id-E-DPCH-Information-RL-AdditionRegFDD, id-E-RGCH-E-HICH-FDD-Code-Information, id-End-Of-Audit-Sequence-Indicator, id-Enhanced-FACH-Capability, id-Enhanced-PCH-Capability, id-ExtendedPropagationDelay, id-FACH-Information. id-FACH-ParametersList-CTCH-ReconfRgstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRgstFDD, id-FACH-ParametersListIE-CTCH-SetupRgstFDD, id-FACH-ParametersListIE-CTCH-SetupRgstTDD, id-Fast-Reconfiguration-Mode, id-Fast-Reconfiguration-Permission, id-F-DPCH-Capability, id-F-DPCH-Information-RL-ReconfPrepFDD, id-F-DPCH-Information-RL-SetupRgstFDD, id-F-DPCH-SlotFormat, id-F-DPCH-SlotFormatCapability, id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRqst, id-HSDSCH-Configured-Indicator, id-HS-DSCH-Serving-Cell-Change-Info, id-HS-DSCH-Serving-Cell-Change-Info-Response, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationExchangeObjectTvpe-InfEx-Rprt, id-InformationReportCharacteristics, id-InformationType, id-InitDL-Power, id-Initial-DL-DPCH-TimingAdjustment, id-Initial-DL-DPCH-TimingAdjustment-Allowed, id-InnerLoopDLPCStatus, id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRqstFDD, id-IPDLParameter-Information-Cell-SetupRqstFDD, id-IPDLParameter-Information-Cell-ReconfRgstTDD, id-IPDLParameter-Information-Cell-SetupRgstTDD, id-IPMulticastIndication, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRgstFDD, id-Local-Cell-ID, id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp,

id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd. id-Local-Cell-InformationItem2-ResourceStatusInd. id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-Max-UE-DTX-Cvcle, id-MeasurementFilterCoefficient, id-MeasurementID, id-MeasurementRecoveryBehavior, id-MeasurementRecoveryReportingIndicator, id-MeasurementRecoverySupportIndicator, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRgst, id-MBMS-Capability, id-MICH-CFN, id-MICH-Information-AuditRsp, id-MICH-Information-ResourceStatusInd, id-MICH-Parameters-CTCH-ReconfRgstFDD, id-MICH-Parameters-CTCH-ReconfRgstTDD, id-MICH-Parameters-CTCH-SetupRqstFDD, id-MICH-Parameters-CTCH-SetupRqstTDD, id-MIMO-Capability, id-MIMO-PilotConfiguration, id-Modification-Period, id-multipleRL-dl-DPCH-InformationList, id-multipleRL-dl-DPCH-InformationModifyList, id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-multiple-RL-Information-RL-ReconfPrepTDD, id-multiple-RL-Information-RL-ReconfRgstTDD, id-multipleRL-ul-DPCH-InformationList, id-multipleRL-ul-DPCH-InformationModifyList, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NI-Information-NotifUpdateCmd, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-NumberOfReportedCellPortions, id-Paging-MACFlows-to-DeleteFDD, id-P-CCPCH-Information, id-P-CPICH-Information, id-P-SCH-Information, id-PCCPCH-Information-Cell-ReconfRqstTDD, id-PCCPCH-Information-Cell-SetupRqstTDD, id-PCH-Parameters-CTCH-ReconfRgstTDD, id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRostFDD, id-PCH-ParametersItem-CTCH-SetupRqstFDD, id-PCH-ParametersItem-CTCH-SetupRgstTDD, id-PCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCH-RL-ID,

id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR, id-PDSCHSets-AddList-PSCH-ReconfRost. id-PDSCHSets-DeleteList-PSCH-ReconfRost. id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information. id-PICH-Parameters-CTCH-ReconfRgstTDD, id-PICH-ParametersItem-CTCH-SetupRgstTDD, id-PLCCH-Information-AuditRsp, id-PLCCH-Information-ResourceStatusInd, id-PLCCH-Information-RL-ReconfPrepTDDLCR, id-PLCCH-InformationList-AuditRsp, id-PLCCH-InformationList-ResourceStatusInd, id-PLCCH-Parameters-CTCH-ReconfRostTDD. id-PowerAdjustmentType, id-Power-Local-Cell-Group-choice-CM-Rgst, id-Power-Local-Cell-Group-choice-CM-Rsp, id-Power-Local-Cell-Group-choice-CM-Rprt, id-Power-Local-Cell-Group-InformationItem-AuditRsp, id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList-AuditRsp, id-Power-Local-Cell-Group-InformationList-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd, id-Power-Local-Cell-Group-ID, id-PRACH-Information, id-PRACHConstant. id-PRACH-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD, id-PrimaryCCPCH-Information-Cell-SetupRgstFDD, id-PrimaryCPICH-Information-Cell-ReconfRgstFDD, id-PrimaryCPICH-Information-Cell-SetupRqstFDD, id-Primary-CPICH-Usage-for-Channel-Estimation, id-PrimarySCH-Information-Cell-ReconfRqstFDD, id-PrimarvSCH-Information-Cell-SetupRgstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRqstTDD, id-SCH-Information-Cell-SetupRgstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRgst, id-PUSCH-Timeslot-Format-PSCH-ReconfRgst-LCR, id-PUSCHConstant. id-PUSCHSets-AddList-PSCH-ReconfRqst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifvList-PSCH-ReconfRast, id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRqstFDD, id-RACH-ParameterItem-CTCH-SetupRqstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset,

id-ResetIndicator, id-RL-ID. id-RL-InformationItem-DM-Rprt. id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRost, id-RL-InformationItem-RL-FailureInd, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRqstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-informationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRgstFDD, id-RL-InformationList-RL-SetupRgstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-ReconfRqstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRostTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-RL-Specific-DCH-Info, id-RL-Specific-E-DCH-Info, id-S-CCPCH-Information, id-S-CCPCH-InformationListExt-AuditRsp, id-S-CCPCH-InformationListExt-ResourceStatusInd, id-S-CCPCH-LCR-InformationListExt-AuditRsp, id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd, id-S-CPICH-Information, id-SCH-Information, id-S-SCH-Information, id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD, id-Secondary-CPICH-Information, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,

id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRostFDD. id-Secondary-CPICH-Information-Change. id-SecondarySCH-Information-Cell-ReconfRgstFDD, id-SecondarySCH-Information-Cell-SetupRgstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-Serving-Cell-Change-CFN, id-Serving-E-DCH-RL-ID, id-SixteenQAM-UL-Capability, id-SixtyfourQAM-DL-Capability, id-SFN, id-SFNReportingIndicator, id-ShutdownTimer. id-SignallingBearerReguestIndicator, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Successful-RL-InformationRespItem-RL-SetupFailureFDD, id-E-DPCCH-Power-Boosting-Capability, id-Synchronisation-Configuration-Cell-ReconfRgst, id-Synchronisation-Configuration-Cell-SetupRgst, id-SvncCase, id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH, id-SyncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell, id-TargetCommunicationControlPortID, id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRgstTDD, id-TimeSlotConfigurationList-Cell-SetupRgstTDD, id-timeslotInfo-CellSyncInitiationRqstTDD, id-TimeslotISCPInfo, id-TimingAdvanceApplied, id-TnlOos, id-TransmissionDiversityApplied, id-transportlayeraddress, id-Tstd-indicator, id-UARFCNforNt, id-UARFCNforNd, id-UARFCNforNu, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRqstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD,

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id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD. id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRgst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRost, id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rast. id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, id-IPDLParameter-Information-LCR-Cell-SetupRgstTDD, id-IPDLParameter-Information-LCR-Cell-ReconfRgstTDD, id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRgst, id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRgst, id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst, id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst, id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRast, id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst, id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD, id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD, id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD, id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRgstTDD, id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRgstTDD, id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD, id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD, id-DwPCH-Power, id-AccumulatedClockupdate-CellSvncReprtTDD, id-HSDPA-Capability, id-HSDSCH-FDD-Information, id-HSDSCH-Common-System-InformationFDD, id-HSDSCH-Common-System-Information-ResponseFDD, id-HSDSCH-FDD-Information-Response, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add, id-HSDSCH-MACdFlows-to-Delete, id-HSDSCH-Paging-System-InformationFDD, id-HSDSCH-Paging-System-Information-ResponseFDD, id-HSDSCH-RearrangeList-Bearer-RearrangeInd, id-HSDSCH-Resources-Information-AuditRsp, id-HSDSCH-Resources-Information-ResourceStatusInd, id-HSDSCH-RNTI, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSSICH-Info-DM-Rprt,

id-HSSICH-Info-DM-Rqst,

id-HSSICH-Info-DM-Rsp. id-PrimCCPCH-RSCP-DL-PC-RastTDD. id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-UL-Synchronisation-Parameters-LCR, id-DL-DPCH-TimeSlotFormat-LCR-ModifvItem-RL-ReconfPrepTDD, id-UL-DPCH-TimeSlotFormat-LCR-ModifvItem-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRgstTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD. id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD, id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD, id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD, id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD, id-TDD-TPC-DownlinkStepSize-RL-AdditionRgstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD, id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD, id-TimingAdjustmentValueLCR, id-PrimaryCCPCH-RSCP-Delta, id-Maximum-Target-ReceivedTotalWideBandPower, id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp, id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp, id-SynchronisationIndicator, id-Reference-ReceivedTotalWideBandPower, id-Reference-ReceivedTotalWideBandPowerReporting, id-Reference-ReceivedTotalWideBandPowerSupportIndicator, id-Maximum-Target-ReceivedTotalWideBandPower-LCR, id-multiple-PUSCH-InfoList-DM-Rsp, id-multiple-PUSCH-InfoList-DM-Rprt, id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio, id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp, id-PCCPCH-768-Information-Cell-SetupRqstTDD, id-SCH-768-Information-Cell-SetupRgstTDD, id-SCH-768-Information-Cell-ReconfRgstTDD, id-PCCPCH-768-Information-Cell-ReconfRostTDD, id-P-CCPCH-768-Information-AuditRsp, id-PICH-768-Information-AuditRsp, id-PRACH-768-InformationList-AuditRsp, id-SCH-768-Information-AuditRsp, id-MICH-768-Information-AuditRsp, id-CommonPhysicalChannelID768-CommonTrChDeletionReq, id-MICH-768-Parameters-CTCH-ReconfRgstTDD,

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id-PICH-768-Parameters-CTCH-SetupRqstTDD, id-PICH-768-Parameters-CTCH-ReconfRostTDD. id-PRACH-768-Parameters-CTCH-SetupRostTDD. id-S-CCPCH-768-InformationList-AuditRsp, id-S-CCPCH-768-Information-AuditRsp, id-S-CCPCH-768-Parameters-CTCH-SetupRgstTDD, id-S-CCPCH-768-Parameters-CTCH-ReconfRgstTDD, id-S-CCPCH-768-Information-ResourceStatusInd, id-P-CCPCH-768-Information-ResourceStatusInd. id-PICH-768-Information-ResourceStatusInd, id-PRACH-768-InformationList-ResourceStatusInd, id-SCH-768-Information-ResourceStatusInd, id-MICH-768-Information-ResourceStatusInd. id-S-CCPCH-768-InformationList-ResourceStatusInd. id-PRACH-768-Information. id-UL-DPCH-768-Information-RL-SetupRgstTDD, id-DL-DPCH-768-Information-RL-SetupRqstTDD, id-DL-DPCH-InformationItem-768-RL-AdditionRgstTDD, id-UL-DPCH-InformationItem-768-RL-AdditionRgstTDD, id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD, id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-768-InformationModify-AddItem, id-UL-DPCH-768-InformationModify-AddList, id-UL-Timeslot768-Information-RL-ReconfPrepTDD, id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD, id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD, id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD, id-DPCH-ID768-DM-Rgst, id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp, id-DPCH-ID768-DM-Rsp, id-DPCH-ID768-DM-Rprt, id-PDSCH-AddInformation-768-PSCH-ReconfRqst, id-PDSCH-ModifvInformation-768-PSCH-ReconfRost, id-PUSCH-AddInformation-768-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst, id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst, id-hS-SCCH-Information-768-PSCH-ReconfRqst, id-hS-SCCH-InformationModify-768-PSCH-ReconfRgst, id-tFCI-Presence, id-E-RUCCH-InformationList-AuditRsp, id-E-RUCCH-InformationList-ResourceStatusInd, id-E-RUCCH-Information. id-E-DCH-Information, id-E-DCH-Information-Response, id-E-DCH-Information-Reconfig, id-E-PUCH-Information-PSCH-ReconfRqst, id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst, id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst, id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst, id-E-HICH-Information-PSCH-ReconfRgst, id-E-DCH-TDD-CapacityConsumptionLaw, id-E-HICH-TimeOffset,

id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells, id-E-DCH-Serving-RL-ID. id-E-RUCCH-768-InformationList-AuditRsp. id-E-RUCCH-768-InformationList-ResourceStatusInd, id-E-RUCCH-768-Information. id-E-DCH-768-Information, id-E-DCH-768-Information-Reconfig, id-E-PUCH-Information-768-PSCH-ReconfRost, id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst, id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst, id-E-HICH-Information-768-PSCH-ReconfRqst, id-RTWP-ReportingIndicator, id-RTWP-CellPortion-ReportingIndicator, id-Received-Scheduled-EDCH-Power-Share-Value. id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value. id-Received-Scheduled-EDCH-Power-Share. id-Received-Scheduled-EDCH-Power-Share-For-CellPortion, id-ueCapability-Info, id-MAChs-ResetIndicator, id-SYNC-UL-Partition-LCR, id-E-DCH-LCR-Information, id-E-DCH-LCR-Information-Reconfig, id-E-PUCH-Information-LCR-PSCH-ReconfRqst, id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast, id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst, id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst, id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRgst, id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst, id-E-HICH-TimeOffsetLCR, id-HSDSCH-MACdPDU-SizeCapability, id-ModulationPO-MBSFN, id-Secondary-CCPCH-SlotFormat-Extended, id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR, id-Time-Slot-Parameter-ID, id-MBSFN-Onlv-Mode-Capability, id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD, id-MBSFN-Cell-ParameterID-Cell-ReconfRgstTDD, id-S-CCPCH-Modulation, id-TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD, id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp, id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp, id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD, id-UARFCN-Adjustment, id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd, id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd, id-UPPCHPositionLCR, id-UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD, id-UPPCH-LCR-InformationList-AuditRsp, id-UPPCH-LCR-InformationItem-AuditRsp, id-UPPCH-LCR-InformationList-ResourceStatusInd, id-UPPCH-LCR-InformationItem-ResourceStatusInd, id-multipleFreg-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst, id-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp, id-multipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd,

id-UARFCNSpecificCauseList, id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD, id-MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst, id-Extended-HS-SCCH-ID. id-Extended-HS-SICH-ID, id-HSSICH-InfoExt-DM-Rgst, id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst, id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst, id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst, id-PowerControlGAP, id-MBSFN-SpecialTimeSlot-LCR, id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp, id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd, id-MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst, id-MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst, id-Extended-E-HICH-ID-TDD, id-E-HICH-TimeOffset-Extension, id-MultipleFreg-E-HICH-TimeOffsetLCR, id-PLCCH-parameters, id-E-RUCCH-parameters, id-E-RUCCH-768-parameters, id-HS-Cause, id-E-Cause, id-AdditionalTimeSlotListLCR, id-AdditionalMeasurementValueList, id-UE-Selected-MBMS-Service-Information, id-TimeSlotMeasurementValueListLCR, id-MIMO-Power-Offset-For-S-CPICH-Capability, id-MIMO-PilotConfigurationExtension, id-TxDiversityOnDLControlChannelsByMIMOUECapability,

id-PrecodingWeightSetRestriction,

maxNrOfCCTrCHs, maxNrOfCellSvncBursts, maxNrOfCodes, maxNrOfDCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDPCHsPerRL-1, maxNrOfDPCHLCRs, maxNrOfDPCHsLCRPerRL-1, maxNrOfDPCHs768, maxNrOfDPCHs768PerRL-1, maxNrOfDSCHs, maxNrOfFACHs, maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPUSCHs-1,

maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHsinExt, maxNrOfSCCPCHLCRs, maxNrOfSCCPCHsLCRinExt, maxNrOfSCCPCHs768, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxFACHCell, maxFPACHCell, maxRACHCell, maxPLCCHCell, maxPRACHCell, maxSCCPCHCell, maxSCCPCHCell768, maxSCCPCHCellinExt, maxSCCPCHCellinExtLCR, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxIB, maxIBSEG, maxNrOfCellPortionsPerCell, maxNrOfHSSCCHs, maxNrOfHSSICHs, maxNrOfHSSICHs-1, maxNrOfHSPDSCHs, maxNrOfHSPDSCHs768, maxNrOfSyncFramesLCR, maxNrOfReceptionsperSyncFrameLCR, maxNrOfSyncDLCodesLCR, maxNrOfMACdFlows, maxNrOfEDCHMACdFlows, maxE-RUCCHCell, maxNrOfE-PUCHSlots, maxNrOfEAGCHs, maxNrOfEAGCHCodes, maxNrOfE-PUCHSlotsLCR, maxNrOfEPUCHcodes, maxNrOfEHICHs, maxFrequencyinCell, maxFrequencyinCell-1, maxNrOfHSSCCHsinExt

FROM NBAP-Constants;

```
COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
_ _
  _ _
CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
                                                        {{CommonTransportChannelSetupRequestFDD-IEs}},
    protocolIEs
                           ProtocolIE-Container
    protocolExtensions
                           ProtocolExtensionContainer
                                                       {{CommonTransportChannelSetupRequestFDD-Extensions}}
                                                                                                                OPTIONAL,
CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
           id-C-ID
     ID
                                                               CRITICALITY reject
                                                                                       TYPE
                                                                                               C-ID
                                                                                                                           PRESENCE mandatory
     ΤD
           id-ConfigurationGenerationID
                                                                                       TYPE
                                                                                               ConfigurationGenerationID
                                                                                                                           PRESENCE mandatory
                                                               CRITICALITY reject
           id-CommonPhysicalChannelType-CTCH-SetupRgstFDD
     ID
                                                               CRITICALITY ignore
                                                                                       TYPE
                                                                                               CommonPhysicalChannelType-CTCH-SetupRgstFDD
               mandatory },
    PRESENCE
    . . .
CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters
                                   Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters
                                   PRACH-CTCH-SetupRgstFDD,
    notUsed-pCPCHes-parameters
                                   NULL,
    . . .
Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                           CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset
                                           FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                           DL-ScramblingCode
                                                                                       OPTIONAL,
    -- This IE shall be present if the PCH Parameters IE is not present
    fdd-DL-ChannelisationCodeNumber
                                           FDD-DL-ChannelisationCodeNumber,
    tFCS
                                           TFCS,
    secondary-CCPCH-SlotFormat
                                           SecondaryCCPCH-SlotFormat,
                                           TFCI-Presence
    tFCI-Presence
                                                                                       OPTIONAL,
    -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17
    multiplexingPosition
                                           MultiplexingPosition,
                                           PowerOffsetInformation-CTCH-SetupRgstFDD,
    powerOffsetInformation
    sTTD-Indicator
                                           STTD-Indicator,
    fACH-Parameters
                                           FACH-ParametersList-CTCH-SetupRqstFDD
                                                                                       OPTIONAL,
                                           PCH-Parameters-CTCH-SetupRgstFDD
                                                                                       OPTIONAL,
    pCH-Parameters
                                           ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
Secondary-CCPCHItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MICH-Parameters-CTCH-SetupRqstFDD
                                                       CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstFDD
                                                                                                                           PRESENCE optional
     ID id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD
                                                       CRITICALITY reject EXTENSION FDD-S-CCPCH-FrameOffset
                                                                                                                           PRESENCE optional
     ID id-ModulationPO-MBSFN
                                                       CRITICALITY reject EXTENSION ModulationPO-MBSFN
                                                                                                                           PRESENCE optional
     ID id-Secondary-CCPCH-SlotFormat-Extended
                                                                                                                           PRESENCE optional },
                                                       CRITICALITY reject EXTENSION Secondary-CCPCH-SlotFormat-Extended
```

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```
. . .
3
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                           PowerOffset.
   pO3-ForPilotBits
                                           PowerOffset,
   iE-Extensions
                                           ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
}
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
FACH-ParametersList-CTCH-SetupRgstFDD ::= ProtocollE-Single-Container {{ FACH-ParametersListlEs-CTCH-SetupRgstFDD }}
FACH-ParametersListIEs-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRgstFDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRgstFDD PRESENCE mandatory }
}
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                       CommonTransportChannelID,
    transportFormatSet
                                       TransportFormatSet,
    toAWS
                                       TOAWS,
                                       TOAWE,
    toAWE
    maxFACH-Power
                                       DL-Power.
                                       ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-bindingID
                                                                                                                     PRESENCE optional }
     ID
                                               CRITICALITY ignore
                                                                       EXTENSION
                                                                                   BindingID
          id-transportlayeraddress
                                                                       EXTENSION TransportLayerAddress
                                               CRITICALITY ignore
                                                                                                                     PRESENCE optional }
     ID
                                               CRITICALITY ignore
                                                                                                                     PRESENCE optional }
     ID id-TnlOos
                                                                       EXTENSION TnlOos
     ID id-BroadcastReference
                                               CRITICALITY ignore
                                                                       EXTENSION
                                                                                  BroadcastReference
                                                                                                                     PRESENCE optional }
     ID
           id-IPMulticastIndication
                                               CRITICALITY ignore
                                                                       EXTENSION IPMulticastIndication
                                                                                                                     PRESENCE optional },
    . . .
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                       CommonTransportChannelID,
    transportFormatSet
                                       TransportFormatSet,
                                       TOAWS,
    toAWS
    toAWE
                                       TOAWE,
                                       DL-Power,
    pCH-Power
    pICH-Parameters
                                       PICH-Parameters-CTCH-SetupRqstFDD,
```

```
ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
PCH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
            id-bindingID
                                                                                                                       PRESENCE optional } |
      ΙD
                                                 CRITICALITY ignore
                                                                                      BindingID
                                                                          EXTENSION
      ТD
            id-transportlayeraddress
                                                 CRITICALITY ignore
                                                                                      TransportLayerAddress
                                                                                                                       PRESENCE optional }
                                                                          EXTENSION
                                                 CRITICALITY ignore
                                                                                                                       PRESENCE optional },
     ID
            id-TnlOos
                                                                          EXTENSION
                                                                                      Tnl0os
    . . .
PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    pICH-Power
                                                 PICH-Power,
    pICH-Mode
                                                 PICH-Mode,
    sTTD-Indicator
                                                 STTD-Indicator,
                                                 ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber
                                                 FDD-DL-ChannelisationCodeNumber,
    mICH-Power
                                                 PICH-Power,
    mICH-Mode
                                                 MICH-Mode,
    sTTD-Indicator
                                                 STTD-Indicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PRACH-CTCH-SetupRgstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    scramblingCodeNumber
                                                 ScramblingCodeNumber,
    tFCS
                                                 TFCS,
    preambleSignatures
                                                 PreambleSignatures,
    allowedSlotFormatInformation
                                                 AllowedSlotFormatInformationList-CTCH-SetupRostFDD,
    rACH-SubChannelNumbers
                                                 RACH-SubChannelNumbers,
    ul-punctureLimit
                                                 PunctureLimit,
    preambleThreshold
                                                 PreambleThreshold,
    rACH-Parameters
                                                 RACH-Parameters-CTCH-SetupRqstFDD,
    aICH-Parameters
                                                 AICH-Parameters-CTCH-SetupRgstFDD,
                                                 ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
```

```
PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
AllowedSlotFormatInformationList-CTCH-SetupRgstFDD ::= SEOUENCE (SIZE (1.. maxNrOfSlotFormatSPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
SetupRqstFDD
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
   rACHSlotFormat
                                               RACH-SlotFormat,
                                               ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
}
AllowedSlotFormatInformationItem-CTCH-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RACH-Parameters-CTCH-SetupRgstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRgstFDD }}
RACH-ParametersIE-CTCH-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE RACH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}
RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                               CommonTransportChannelID,
    transportFormatSet
                                               TransportFormatSet,
   iE-Extensions
                                               ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRgstFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID
           id-bindingID
                                               CRITICALITY ignore
                                                                      EXTENSION
                                                                                  BindingID
                                                                                                                 PRESENCE optional }
           id-transportlayeraddress
                                               CRITICALITY ignore
                                                                                                                 PRESENCE optional }
     ID
                                                                      EXTENSION
                                                                                  TransportLayerAddress
     ID
           id-TnlOos
                                               CRITICALITY ignore
                                                                      EXTENSION
                                                                                  Tnl0os
                                                                                                                 PRESENCE optional },
    . . .
AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    aICH-TransmissionTiming
                                               AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber
                                               FDD-DL-ChannelisationCodeNumber,
   aICH-Power
                                               AICH-Power,
                                               STTD-Indicator,
    sTTD-Indicator
                                               ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRgstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
   _ _
```

```
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
   CommonTransportChannelSetupReguestTDD ::= SEQUENCE
   protocolIEs
                          ProtocolIE-Container
                                                      {{CommonTransportChannelSetupReguestTDD-IEs}},
                                                     {{CommonTransportChannelSetupRequestTDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                   OPTIONAL,
    . . .
}
CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
     ID
           id-C-ID
                                                          CRITICALITY reject TYPE C-ID
                                                                                                                      PRESENCE mandatory
           id-ConfigurationGenerationID
     ID
                                                          CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                      PRESENCE mandatory
     ID
           id-CommonPhysicalChannelType-CTCH-SetupRqstTDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstTDD
                                                                                                                                 PRESENCE
   mandatory },
    . . .
CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
    secondary-CCPCH-parameters
                                              Secondary-CCPCH-CTCH-SetupRgstTDD,
   pRACH-parameters
                                              PRACH-CTCH-SetupRqstTDD,
    ...,
    extension-CommonPhysicalChannelType-CTCH-SetupRgstTDD Extension-CommonPhysicalChannelType-CTCH-SetupRgstTDD
Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDDIE }}
Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDDIE NBAP-PROTOCOL-IES ::= {
    ID id-PLCCH-parameters
                                  CRITICALITY ignore TYPE PLCCH-parameters
                                                                                 PRESENCE mandatory } |
    ID id-E-RUCCH-parameters
                                  CRITICALITY ignore
                                                         TYPE E-RUCCH-parameters
                                                                                     PRESENCE mandatory }|
    ID id-E-RUCCH-768-parameters CRITICALITY ignore
                                                          TYPE E-RUCCH-768-parameters PRESENCE mandatory },
   . . .
Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE
    sCCPCH-CCTrCH-ID
                                              CCTrCH-ID, -- For DL CCTrCH supporting one or several Secondary CCPCHs
                                                          -- For DL CCTrCH supporting one or several Secondary CCPCHs
    tFCS
                                              TFCS,
    tFCI-Coding
                                              TFCI-Coding
   punctureLimit
                                              PunctureLimit,
                                              Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    secondaryCCPCH-parameterList
    fACH-ParametersList
                                              FACH-ParametersList-CTCH-SetupRgstTDD
                                                                                         OPTIONAL.
   pCH-Parameters
                                              PCH-Parameters-CTCH-SetupRqstTDD
                                                                                         OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}
                                                                                                                           OPTIONAL,
    . . .
Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-Tstd-indicator
                                                              CRITICALITY reject EXTENSION TSTD-Indicator
                                                                                                                        PRESENCE optional }
     ID id-MICH-Parameters-CTCH-SetupRqstTDD
                                                              CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstTDD PRESENCE optional
```

```
{ ID id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD
                                                               CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-
SetupRastTDD
                   PRESENCE optional }|
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.
    { ID id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRgstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-CTCH-
SetupRastTDD
                   PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
    { ID id-S-CCPCH-768-Parameters-CTCH-SetupRgstTDD
                                                               CRITICALITY reject EXTENSION Secondary-CCPCH-768-parameterList-CTCH-SetupRqstTDD
       PRESENCE optional }|
     ID id-S-CCPCH-Modulation
                                                               CRITICALITY reject EXTENSION ModulationMBSFN
                                                                                                                                  PRESENCE optional
    -- Applicable to 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    ID id-TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD
    PRESENCE optional }
    { ID id-UARFCNforNt
                           CRITICALITY reject EXTENSION UARFCN
                                                                       PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of Secondary Frequency on which SCCPCH to be set
up
    . . .
Secondary-CCPCH-parameterList-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD }}
Secondary-CCPCH-parameterListIEs-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
     ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD
    PRESENCE optional }|
    { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
    PRESENCE optional }
Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD
Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD ::= SEQUENCE {
                                               CommonPhysicalChannelID,
    commonPhysicalChannelID
    tdd-ChannelisationCode
                                               TDD-ChannelisationCode,
    timeslot
                                               TimeSlot,
    midambleShiftandBurstType
                                               MidambleShiftAndBurstType,
                                               TDD-PhysicalChannelOffset,
    tdd-PhysicalChannelOffset
    repetitionPeriod
                                               RepetitionPeriod,
    repetitionLength
                                               RepetitionLength,
    s-CCPCH-Power
                                               DL-Power,
    iE-Extensions
                                               ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRgstTDD-ExtIEs } }
    OPTIONAL,
    . . .
Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-tFCI-Presence
                                               CRITICALITY notify EXTENSION TFCI-Presence
                                                                                               PRESENCE optional },
    . . .
}
Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-
SetupRqstTDD
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                               TDD-ChannelisationCodeLCR,
```

```
timeslotLCR
                                                TimeSlotLCR.
    midambleShiftLCR
                                                MidambleShiftLCR.
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
    tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionPeriod
                                                RepetitionPeriod,
                                                RepetitionLength,
    repetitionLength
                                                DL-Power,
    s-CCPCH-Power
    s-CCPCH-TimeSlotFormat-LCR
                                                TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs } }
    OPTIONAL,
    . . .
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MBSFN-SpecialTimeSlot-LCR
                                                    CRITICALITY ignore
                                                                            EXTENSION TimeslotLCR-Extension
                                                                                                                          PRESENCE optional },
    -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The IE 'Time Slot LCR' shall be ignored if this
IE appears
Secondary-CCPCH-768-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-parameterItem-CTCH-
SetupRqstTDD
Secondary-CCPCH-768-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID768
                                                CommonPhysicalChannelID768,
    tdd-ChannelisationCode768
                                                TDD-ChannelisationCode768,
    timeslot
                                                TimeSlot,
    tFCI-Presence768
                                                TFCI-Presence
                                                                    OPTIONAL,
    midambleShiftandBurstType768
                                                MidambleShiftAndBurstType768,
    tdd-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionPeriod
                                                RepetitionPeriod,
    repetitionLength
                                                RepetitionLength,
    s-CCPCH-Power
                                                DL-Power,
                                                ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-768-CTCH-SetupRgstTDD-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
Secondary-CCPCH-parameterItem-768-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
FACH-ParametersList-CTCH-SetupRqstTDD ::= Protocolle-Single-Container {{ FACH-ParametersListles-CTCH-SetupRqstTDD }}
FACH-ParametersListIEs-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstTDD PRESENCE mandatory }
}
FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD
FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    fACH-CCTrCH-ID
                                            CCTrCH-ID,
    dl-TransportFormatSet
                                            TransportFormatSet,
```

```
TOAWS,
    toAWS
    toAWE
                                            TOAWE.
    iE-Extensions
                                            ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                                OPTIONAL.
    . . .
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID
          id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power
                                                                                                                     PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-bindingID
                                                    CRITICALITY ignore EXTENSION BindingID
                                                                                                                     PRESENCE optional } |
    -- Shall be ignored if bearer establishment with ALCAP.
           id-transportlayeraddress
                                                                                                                     PRESENCE optional } |
    { ID
                                                    CRITICALITY ignore EXTENSION TransportLayerAddress
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID
           id-TnlOos
                                                    CRITICALITY ignore EXTENSION
                                                                                    Tnl0os
                                                                                                                     PRESENCE optional } |
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID
           id-BroadcastReference
                                                    CRITICALITY ignore EXTENSION
                                                                                    BroadcastReference
                                                                                                                     PRESENCE optional }|
           id-IPMulticastIndication
                                                    CRITICALITY ignore EXTENSION
                                                                                    IPMulticastIndication
                                                                                                                     PRESENCE optional },
    { ID
    . . .
PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}
PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    pCH-CCTrCH-ID
                                            CCTrCH-ID,
                                            TransportFormatSet, -- For the DL.
    dl-TransportFormatSet
    toAWS
                                            TOAWS,
                                            TOAWE,
    toAWE
    pICH-Parameters
                                            PICH-Parameters-CTCH-SetupRqstTDD,
                                            ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
PCH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
           id-PCH-Power-LCR-CTCH-SetupRgstTDD
      ID
                                                        CRITICALITY reject EXTENSION DL-Power
                                                                                                                                   PRESENCE optional
     ID
           id-bindingID
                                                        CRITICALITY ignore EXTENSION BindingID
                                                                                                                                   PRESENCE optional
    -- Shall be ignored if bearer establishment with ALCAP.
           id-transportlayeraddress
                                                        CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                                                   PRESENCE optional
     ID
    } |
    -- Shall be ignored if bearer establishment with ALCAP.
      ID id-PICH-768-Parameters-CTCH-SetupRgstTDD
                                                        CRITICALITY reject EXTENSION PICH-768-ParametersItem-CTCH-SetupRqstTDD
                                                                                                                                   PRESENCE optional
     ID id-TnlOos
                                                        CRITICALITY ignore EXTENSION TnlQos
                                                                                                                                   PRESENCE optional
    ł.,
    -- Shall be ignored if bearer establishment with ALCAP.
    . . .
```

**ETSI** 

```
PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}
PICH-ParametersIE-CTCH-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
      ID id-PICH-ParametersItem-CTCH-SetupRgstTDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-SetupRgstTDD PRESENCE optional }
     ID id-PICH-LCR-Parameters-CTCH-SetupRgstTDD CRITICALITY reject TYPE PICH-LCR-Parameters-CTCH-SetupRgstTDD PRESENCE optional }
3
PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    timeSlot
                                            TimeSlot,
                                            MidambleShiftAndBurstType,
    midambleshiftAndBurstType
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pagingIndicatorLength
                                            PagingIndicatorLength,
    pICH-Power
                                            PICH-Power,
                                                                           { PICH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs} }
    iE-Extensions
                                            ProtocolExtensionContainer
                                                                                                                                 OPTIONAL,
    . . .
PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pagingIndicatorLength
                                            PagingIndicatorLength,
                                            PICH-Power,
    pICH-Power
    second-TDD-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    iE-Extensions
                                            ProtocolExtensionContainer
                                                                         { { PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID
          id-Tstd-indicator
                                        CRITICALITY reject
                                                                 EXTENSION TSTD-Indicator
                                                                                                 PRESENCE
                                                                                                                      optional },
    -- Applicable to 1.28 Mcps TDD only
    . . .
l
PICH-768-ParametersItem-CTCH-SetupRgstTDD ::= SEOUENCE {
    commonPhysicalChannelID768
                                            CommonPhysicalChannelID768,
                                            TDD-ChannelisationCode768,
    tdd-ChannelisationCode768
    timeSlot
                                            TimeSlot,
                                            MidambleShiftAndBurstType768,
    midambleshiftAndBurstType78
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
                                            RepetitionLength,
    repetitionLength
```

```
pagingIndicatorLength
                                             PagingIndicatorLength,
    pICH-Power
                                             PICH-Power.
    iE-Extensions
                                             ProtocolExtensionContainer
                                                                         { { PICH-768-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
PICH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                             TDD-PhysicalChannelOffset,
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    notificationIndicatorLength
                                             NotificationIndicatorLength,
                                             PICH-Power,
    mICH-Power
    mICH-TDDOption-Specific-Parameters
                                             MICH-TDDOption-Specific-Parameters-CTCH-SetupRqstTDD,
                                             ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MICH-TDDOption-Specific-Parameters-CTCH-SetupRqstTDD ::= CHOICE {
    hCR-TDD
                                             MICH-HCR-Parameters-CTCH-SetupRgstTDD,
    1CR-TDD
                                             MICH-LCR-Parameters-CTCH-SetupRqstTDD,
    ...,
    cHipRate768-TDD
                                             MICH-768-Parameters-CTCH-SetupRqstTDD
MICH-HCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    timeSlot
                                            TimeSlot,
    midambleshiftAndBurstType
                                             MidambleShiftAndBurstType,
                                             ProtocolExtensionContainer { { MICH-HCR-Parameters-CTCH-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
3
MICH-HCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
    second-TDD-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    tSTD-Indicator
                                             TSTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { MICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
```

```
. . .
}
MICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-MBSFN-SpecialTimeSlot-LCR
                                                    CRITICALITY ignore
                                                                            EXTENSION TimeslotLCR-Extension
                                                                                                                           PRESENCE optional },
    { ID
    -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The IE 'Time Slot LCR' shall be ignored if this
IE appears
    . . .
MICH-768-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    timeSlot
                                            TimeSlot.
    midambleshiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    iE-Extensions
                                            ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
MICH-768-Parameters-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD
TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD ::= SEQUENCE {
    timeslotLCR
                                            TimeSlotLCR.
    timeslotLCR-Parameter-ID
                                            CellParameterID,
    iE-Extensions
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
J
TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCH-parameterItem-CTCH-
SetupRastTDD
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.
Secondary-CCPCH-LCR-parameterExtendedList-CTCH-SetupRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHsLCRinExt)) OF Secondary-CCPCH-LCR-parameterItem-
CTCH-SetupRqstTDD
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHLCRs SCCPCHs are to be established.
PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
    pRACH-Parameters-CTCH-SetupRgstTDD
                                                PRACH-Parameters-CTCH-SetupRgstTDD,
                                                ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional } |
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-PRACH-768-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PRACH-768-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional },
```

```
}
PRACH-Parameters-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRgstTDD }}
PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-PRACH-ParametersItem-CTCH-SetupRgstTDD
                                                     CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRgstTDD
                                                                                                                            PRESENCE optional }|
     ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional
}
PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
    tFCS
                                               TFCS,
    timeslot
                                               TimeSlot,
    tdd-ChannelisationCode
                                               TDD-ChannelisationCode,
    maxPRACH-MidambleShifts
                                               MaxPRACH-MidambleShifts,
                                                PRACH-Midamble,
    pRACH-Midamble
                                                RACH-Parameter-CTCH-SetupRgstTDD,
    rACH
                                                ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RACH-Parameter-CTCH-SetupRgstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRgstTDD }}
RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRqstTDD PRESENCE mandatory }
RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                                CommonTransportChannelID,
    uL-TransportFormatSet
                                               TransportFormatSet, -- For the UL
                                                ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                       CRITICALITY ignore EXTENSION BindingID
                                                                                                PRESENCE optional }|
    { ID id-bindingID
       -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-transportlayeraddress
                                       CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                PRESENCE optional }|
       -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                       CRITICALITY ignore EXTENSION Thloos
                                                                                                PRESENCE optional }.
    -- Shall be ignored if bearer establishment with ALCAP.
    . . .
PRACH-LCR-ParametersList-CTCH-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfPRACHLCRs)) OF PRACH-LCR-ParametersItem-CTCH-SetupRgstTDD
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                               CommonPhysicalChannelID,
    tFCS
                                                TFCS,
```

```
timeslotLCR
                                                 TimeSlotLCR,
    tdd-ChannelisationCodeLCR
                                                 TDD-ChannelisationCodeLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR.
    rACH
                                                 RACH-Parameter-CTCH-SetupRgstTDD,
    iE-Extensions
                                                 ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                                           OPTIONAL.
    . . .
PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
                            CRITICALITY reject
    { ID id-UARFCNforNt
                                                     EXTENSION UARFCN
                                                                             PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of secondary on which PRACH to be set up.
    . . .
}
PRACH-768-ParametersItem-CTCH-SetupRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                                 CommonPhysicalChannelID768,
    tFCS
                                                 TFCS,
    timeslot
                                                 TimeSlot,
                                                 TDD-ChannelisationCode768,
    tdd-ChannelisationCode768
    maxPRACH-MidambleShifts
                                                 MaxPRACH-MidambleShifts,
    pRACH-Midamble
                                                 PRACH-Midamble,
                                                 RACH-Parameter-CTCH-SetupRqstTDD,
    rACH
                                                 ProtocolExtensionContainer { { PRACH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
PRACH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR
                                                 TDD-ChannelisationCodeLCR,
    timeslotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
    fPACH-Power
                                                 FPACH-Power,
    iE-Extensions
                                                 ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                            CRITICALITY reject
                                                     EXTENSION UARFCN
                                                                             PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of Secondary Frequency on which FPACH to be set
up.
    . . .
PLCCH-parameters ::= SEQUENCE
    maxPowerPLCCH
                                                 DL-Power,
    commonPhysicalChannelID
                                                 CommonPhysicalChannelID,
    tdd-ChannelisationCode
                                                 TDD-ChannelisationCode,
    timeslotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
    iE-Extensions
                                                 ProtocolExtensionContainer { { PLCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
```

```
. . .
PLCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
E-RUCCH-parameters ::= SEQUENCE {
   commonPhysicalChannelID
                                              CommonPhysicalChannelID,
   timeslot
                                              TimeSlot,
   tdd-ChannelisationCode
                                              TDD-ChannelisationCode,
   maxE-RUCCH-MidambleShifts
                                              MaxPRACH-MidambleShifts,
   e-RUCCH-Midamble
                                              PRACH-Midamble,
   iE-Extensions
                                              ProtocolExtensionContainer { { E-RUCCH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
E-RUCCH-ParametersItem-CTCH-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
E-RUCCH-768-parameters ::= SEQUENCE {
    commonPhysicalChannelID768
                                              CommonPhysicalChannelID768,
   timeslot
                                              TimeSlot,
   tdd-ChannelisationCode768
                                              TDD-ChannelisationCode768,
   maxE-RUCCH-MidambleShifts
                                              MaxPRACH-MidambleShifts,
   e-RUCCH-Midamble
                                              PRACH-Midamble,
   iE-Extensions
                                              ProtocolExtensionContainer { { E-RUCCH-768-ParametersItem-CTCH-SetupRgstTDD-ExtIEs } }
   OPTIONAL,
    . . .
E-RUCCH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
        -- COMMON TRANSPORT CHANNEL SETUP RESPONSE
CommonTransportChannelSetupResponse ::= SEQUENCE {
                                                      {{CommonTransportChannelSetupResponse-IEs}},
   protocolIEs
                          ProtocolIE-Container
                          ProtocolExtensionContainer
                                                     {{CommonTransportChannelSetupResponse-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
    . . .
}
CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
     ID id-FACH-ParametersList-CTCH-SetupRsp CRITICALITY ignore TYPE FACH-CommonTransportChannel-InformationResponse
                                                                                                                       PRESENCE optional
     ID id-PCH-Parameters-CTCH-SetupRsp
                                              CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse
                                                                                                                       PRESENCE optional
     ID id-RACH-Parameters-CTCH-SetupRsp
                                              CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse
                                                                                                                       PRESENCE optional
     ID id-CriticalityDiagnostics
                                              CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                       PRESENCE optional },
    . . .
```

```
CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
}
FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF CommonTransportChannel-InformationResponse
    - -
-- COMMON TRANSPORT CHANNEL SETUP FAILURE
CommonTransportChannelSetupFailure ::= SEQUENCE {
   protocolIEs
               ProtocolIE-Container
                                                 {{CommonTransportChannelSetupFailure-IEs}},
                     ProtocolExtensionContainer
                                                {{CommonTransportChannelSetupFailure-Extensions}}
   protocolExtensions
                                                                                                OPTIONAL,
   . . .
}
CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID
         id-Cause
                                  CRITICALITY iqnore
                                                                                                                       }|
                                                       TYPE
                                                               Cause
                                                                                                     PRESENCE mandatory
          id-CriticalityDiagnostics CRITICALITY ignore
    ID
                                                       TYPE
                                                               CriticalityDiagnostics
                                                                                                     PRESENCE optional
                                                                                                                       }.
   . . .
CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
  COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
- -
- -
  CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {
                                                 {{CommonTransportChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                          OPTIONAL,
   . . .
}
CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    ID id-C-ID
                                                    CRITICALITY reject TYPE C-ID
                                                                                                               PRESENCE mandatory
} |
    ID id-ConfigurationGenerationID
                                                    CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                               PRESENCE mandatory
} |
   { ID id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD
                                                  CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE
mandatory },
   . . .
}
CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

```
CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE
    secondary-CCPCH-parameters
                                    Secondary-CCPCHList-CTCH-ReconfRgstFDD,
    pRACH-parameters
                                    PRACHList-CTCH-ReconfRqstFDD,
    notUsed-cPCH-parameters
                                    NULL,
    . . .
Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE
    fACH-ParametersList-CTCH-ReconfRqstFDD
                                                FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD
                                                PCH-Parameters-CTCH-ReconfRqstFDD
                                                                                         OPTIONAL,
    pICH-Parameters-CTCH-ReconfRgstFDD
                                                PICH-Parameters-CTCH-ReconfRgstFDD
                                                                                         OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MICH-Parameters-CTCH-ReconfRgstFDD
                                                    CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRgstFDD
                                                                                                                              PRESENCE optional },
    . . .
FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRqstFDD }}
FACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
     ID id-FACH-ParametersListIE-CTCH-ReconfRqstFDD
                                                       CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-ReconfRqstFDD
                                                                                                                              PRESENCE mandatory
}
FACH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRgstFDD
FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    maxFACH-Power
                                            DL-Power
                                                            OPTIONAL,
    toAWS
                                            ToAWS
                                                            OPTIONAL,
    toAWE
                                            TOAWE
                                                            OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID
           id-TnlOos
                                CRITICALITY ignore
                                                        EXTENSION TnlQos
                                                                             PRESENCE optional },
    . . .
PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRqstFDD }}
PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
     ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}
PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    pCH-Power
                                            DL-Power
                                                            OPTIONAL,
                                            ToAWS
    toAWS
                                                            OPTIONAL,
```

```
toAWE
                                                             OPTIONAL,
                                            TOAWE
    iE-Extensions
                                            ProtocolExtensionContainer
                                                                        { { PCH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
PCH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID
           id-TnlOos
                                CRITICALITY ignore
                                                        EXTENSION TnlOos
                                                                             PRESENCE optional },
    . . .
}
PICH-Parameters-CTCH-ReconfRgstFDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRgstFDD }}
PICH-ParametersIE-CTCH-ReconfRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-ReconfRqstFDD
                                                                                                                        PRESENCE mandatory }
}
PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
    pICH-Power
                                        PICH-Power
                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
PICH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MICH-Parameters-CTCH-ReconfRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
   mICH-Power
                                        PICH-Power
                                                                                                                           OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRgstFDD-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
MICH-Parameters-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    pRACH-ParametersList-CTCH-ReconfRqstFDD
                                                 PRACH-ParametersList-CTCH-ReconfRgstFDD OPTIONAL,
    aICH-ParametersList-CTCH-ReconfRqstFDD
                                                 AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
   iE-Extensions
                                                 ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    . . .
}
PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PRACH-ParametersList-CTCH-ReconfRgstFDD ::= Protocolle-Single-Container {{ PRACH-ParametersListles-CTCH-ReconfRgstFDD }}
PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
```

aICH-Power

. . .

iE-Extensions

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OPTIONAL,

```
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                                                                         622
PRACH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRgstFDD
PRACH-ParametersItem-CTCH-ReconfRgstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    preambleSignatures
                                            PreambleSignatures
                                                                                                                                 OPTIONAL,
    allowedSlotFormatInformation
                                            AllowedSlotFormatInformationList-CTCH-ReconfRgstFDD
                                                                                                                                 OPTIONAL,
    rACH-SubChannelNumbers
                                            RACH-SubChannelNumbers
                                                                                                                                 OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } }
                                                                                                                                OPTIONAL,
PRACH-ParametersItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID
      id-TnlOos
                            CRITICALITY ignore
                                                    EXTENSION TnlOos
                                                                         PRESENCE optional },
    . . .
AllowedSlotFormatInformationList-CTCH-ReconfRgstFDD ::= SEOUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
ReconfRqstFDD
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    rACH-SlotFormat
                                            RACH-SlotFormat,
    iE-Extensions
                                            ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs } }
    OPTIONAL,
    . . .
AllowedSlotFormatInformationItem-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocollE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
                                                      CRITICALITY reject TYPE AICH-ParametersListIE-CTCH-ReconfRgstFDD
    { ID id-AICH-ParametersListIE-CTCH-ReconfRgstFDD
                                                                                                                             PRESENCE mandatory }
AICH-ParametersListIE-CTCH-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRgstFDD
AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
                                        CommonPhysicalChannelID,
    commonPhysicalChannelID
```

OPTIONAL,

AICH-ParametersItemIE-CTCH-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . - --- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD \_ \_

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**ETSI** 

ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } }

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CommonTransportChannelReconfigurationReguestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelReconfigurationReguestTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelReconfigurationReguestTDD-Extensions}} OPTIONAL. . . . CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory } ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject TYPE Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD PRESENCE optional }| ID id-PICH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } ID id-FACH-ParametersList-CTCH-ReconfRgstTDD CRITICALITY reject TYPE FACH-ParametersList-CTCH-ReconfRgstTDD PRESENCE optional } ID id-PCH-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject TYPE PCH-Parameters-CTCH-ReconfRgstTDD PRESENCE optional }, . . . CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-ReconfRqstTDD PRESENCE optional }| -- Applicable to 1.28Mcps TDD only { ID id-MICH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRgstTDD PRESENCE optional } { ID id-PLCCH-Parameters-CTCH-ReconfRqstTDD CRITICALITY ignore EXTENSION PLCCH-Parameters-CTCH-ReconfRgstTDD PRESENCE optional }| { ID id-S-CCPCH-768-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-768-Parameters-CTCH-ReconfRgstTDD PRESENCE optional } { ID id-PICH-768-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION PICH-768-Parameters-CTCH-ReconfRqstTDD PRESENCE optional }| { ID id-MICH-768-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION MICH-768-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } { ID id-UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD PRESENCE CRITICALITY reject EXTENSION UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD optional }, -- Applicable to 1.28Mcps TDD only . . . Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE { cCTrCH-ID CCTrCH-ID, Secondary-CCPCHList-CTCH-ReconfRqstTDD secondaryCCPCHList OPTIONAL, ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-Additional-S-CCPCH-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRastTDD PRESENCE optional }| -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured. { ID id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRgstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRqstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured. . . .

```
Secondary-CCPCHList-CTCH-ReconfRgstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCHListIEs-CTCH-ReconfRgstTDD }}
Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD
                                                      CRITICALITY reject TYPE Secondary-CCPCHListIE-CTCH-ReconfRqstTDD
                                                                                                                             PRESENCE mandatory }
}
Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD
Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
                                        CommonPhysicalChannelID,
    commonPhysicalChannelID
    sCCPCH-Power
                                        DL-Power
                                                        OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRgstTDD-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
Secondary-CCPCHItem-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCHItem-CTCH-ReconfRgstTDD
    -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHsLCRinExt)) OF Secondary-CCPCHItem-CTCH-
ReconfRgstTDD
    -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
PICH-Parameters-CTCH-ReconfRgstTDD
                                   ::= SEQUENCE {
                                        CommonPhysicalChannelID,
    commonPhysicalChannelID
    pICH-Power
                                        PICH-Power
                                                        OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRgstTDD-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
PICH-Parameters-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-ParametersList-CTCH-ReconfRgstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRgstTDD
FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
                                    CommonTransportChannelID,
    commonTransportChannelID
    toAWS
                                    TOAWS
                                                    OPTIONAL,
    TOAWE
                                    TOAWE
                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL.
    . . .
FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD
                                                            CRITICALITY reject
                                                                                     EXTENSION DL-Power
                                                                                                                       PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-TnlOos
                                                            CRITICALITY ignore
                                                                                     EXTENSION Thloos
                                                                                                                       PRESENCE optional },
    . . .
```

```
PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID
                                     CommonTransportChannelID,
    toAWS
                                     ToAWS
                                                     OPTIONAL,
    toAWE
                                     TOAWE
                                                     OPTIONAL.
                                     ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PCH-Power-LCR-CTCH-ReconfRqstTDD
                                                     CRITICALITY reject
                                                                              EXTENSION DL-Power
                                                                                                                       PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-TnlOos
                                                     CRITICALITY ignore
                                                                              EXTENSION TnlOos
                                                                                                                       PRESENCE optional },
    . . .
}
FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId
                                    CommonPhysicalChannelID,
    fPACHPower
                                     FPACH-Power
                                                     OPTIONAL,
                                     ProtocolExtensionContainer { { FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
FPACH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                         CommonPhysicalChannelID,
    mICH-Power
                                         PICH-Power
                                                                                                                             OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRgstTDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
}
PLCCH-Parameters-CTCH-ReconfRgstTDD ::= SEQUENCE {
    maxPowerPLCCH
                                         DL-Power,
                                         ProtocolExtensionContainer { { PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-768-Parameters-CTCH-ReconfRqstTDD::= SEQUENCE {
    cCTrCH-ID
                                     CCTrCH-ID,
    secondaryCCPCH768List
                                     Secondary-CCPCH-768-List-CTCH-ReconfRqstTDD
                                                                                          OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
```

```
Secondary-CCPCH-768-CTCH-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-768-List-CTCH-ReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-Item-CTCH-ReconfRgstTDD
Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    sCCPCH-Power
                                        DL-Power
                                                         OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Secondary-CCPCH-768-Item-CTCH-ReconfRgstTDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
}
Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PICH-768-Parameters-CTCH-ReconfRgstTDD ::= SEQUENCE
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    pICH-Power
                                        PICH-Power
                                                         OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { PICH-768-Parameters-CTCH-ReconfRgstTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
   mICH-Power
                                        PICH-Power
                                                                                                                              OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    uPPCHPositionLCR
                                    UPPCHPositionLCR
                                                             OPTIONAL,
    UARFCN
                                    UARFCN
                                                             OPTIONAL,
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies Corresponds to Nt [15]
                                    ProtocolExtensionContainer { { UPPCH-LCR-Parameters-CTCH-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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\_ \_ COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE - -CommonTransportChannelReconfigurationResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelReconfigurationResponse-IEs}}, protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}} OPTIONAL, . . . CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= { { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . 3 CommonTransportChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - -COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE - -\*\*\*\*\* CommonTransportChannelReconfigurationFailure ::= SEQUENCE {{CommonTransportChannelReconfigurationFailure-IEs}}, protocolIEs ProtocolIE-Container {{CommonTransportChannelReconfigurationFailure-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } id-CriticalityDiagnostics ID CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . -- COMMON TRANSPORT CHANNEL DELETION REQUEST - -CommonTransportChannelDeletionRequest ::= SEQUENCE { {{CommonTransportChannelDeletionRequest-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelDeletionRequest-Extensions}} OPTIONAL, . . .

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory ΙD id-CommonPhysicalChannelID CRITICALITY reject TYPE CommonPhysicalChannelID PRESENCE mandatory ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }, . . . CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-CommonPhysicalChannelID768-CommonTrChDeletionReq CRITICALITY reject EXTENSION CommonPhysicalChannelID768 PRESENCE optional }, . . . \_ \_ COMMON TRANSPORT CHANNEL DELETION RESPONSE - -\_ \_ CommonTransportChannelDeletionResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelDeletionResponse-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelDeletionResponse-Extensions}} OPTIONAL, protocolExtensions . . . CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= id-CriticalityDiagnostics CriticalityDiagnostics PRESENCE optional }, { ID CRITICALITY ignore TYPE . . . } CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- BLOCK RESOURCE REOUEST BlockResourceRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {BlockResourceRequest-IEs}}, ProtocolExtensionContainer {{BlockResourceRequest-Extensions}} protocolExtensions OPTIONAL, . . . } BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory ID id-BlockingPriorityIndicator CRITICALITY reject TYPE BlockingPriorityIndicator PRESENCE mandatory { ID id-ShutdownTimer CRITICALITY reject TYPE ShutdownTimer PRESENCE conditional }, -- The IE shall be present if the Blocking Priority Indicator IE indicates "Normal Priority"--. . .

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BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* - --- BLOCK RESOURCE RESPONSE - -BlockResourceResponse ::= SEQUENCE { ProtocolIE-Container {{BlockResourceResponse-IEs}}, protocolIEs ProtocolExtensionContainer {{BlockResourceResponse-Extensions}} protocolExtensions OPTIONAL, . . . } BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= { { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* - --- BLOCK RESOURCE FAILURE - -\*\*\*\*\* BlockResourceFailure ::= SEQUENCE { protocolIEs ProtocolIE-Container {{BlockResourceFailure-IEs}}, protocolExtensions ProtocolExtensionContainer {{BlockResourceFailure-Extensions}} OPTIONAL, . . . } BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }| TYPE CriticalityDiagnostics { ID id-CriticalityDiagnostics CRITICALITY ignore PRESENCE optional }, . . . } BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - -- --- UNBLOCK RESOURCE INDICATION UnblockResourceIndication ::= SEQUENCE {

```
{{UnblockResourceIndication-IEs}},
   protocolIEs
                        ProtocolIE-Container
   protocolExtensions
                        ProtocolExtensionContainer
                                                {{UnblockResourceIndication-Extensions}}
                                                                                     OPTIONAL,
   . . .
UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
                                                          PRESENCE mandatory },
   { ID id-C-ID
                       CRITICALITY ignore
                                            TYPE C-ID
   . . .
}
UnblockResourceIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
3
  _ _
_ _
-- AUDIT REQUIRED INDICATION
_ _
  AuditRequiredIndication ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                                {{AuditRequiredIndication-IEs}},
                                               {{AuditRequiredIndication-Extensions}}
   protocolExtensions
                       ProtocolExtensionContainer
                                                                                                   OPTIONAL,
   . . .
}
AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
   . . .
AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
   - -
-- AUDIT REOUEST
- -
AuditRequest ::= SEQUENCE {
                                                    {AuditRequest-IEs}},
   protocolIEs
                           ProtocolIE-Container
                                                  {{AuditRequest-Extensions}}
   protocolExtensions
                           ProtocolExtensionContainer
                                                                              OPTIONAL,
   . . .
}
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-Start-Of-Audit-Sequence-Indicator
                                            CRITICALITY reject TYPE Start-Of-Audit-Sequence-Indicator
                                                                                                     PRESENCE mandatory },
   . . .
}
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

-- AUDIT RESPONSE AuditResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {AuditResponse-IEs}}, {{AuditResponse-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL. . . . AuditResponse-IEs NBAP-PROTOCOL-IES ::= { ID id-End-Of-Audit-Sequence-Indicator CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator PRESENCE mandatory } | ID id-Cell-InformationList-AuditRsp CRITICALITY ignore TYPE Cell-InformationList-AuditRsp PRESENCE optional ID id-CCP-InformationList-AuditRsp PRESENCE optional CRITICALITY ignore TYPE CCP-InformationList-AuditRsp -- CCP (Communication Control Port) --ID id-Local-Cell-InformationList-AuditRsp CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp PRESENCE optional ID id-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp PRESENCE optional { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp PRESENCE optional }, . . . Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}} Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Cell-InformationItem-AuditRsp PRESENCE optional } Cell-InformationItem-AuditRsp ::= SEQUENCE { c-ID C-ID, configurationGenerationID ConfigurationGenerationID, resourceOperationalState ResourceOperationalState, availabilityStatus AvailabilityStatus, local-Cell-ID Local-Cell-ID, primary-SCH-Information P-SCH-Information-AuditRsp OPTIONAL, secondary-SCH-Information S-SCH-Information-AuditRsp OPTIONAL, P-CPICH-Information-AuditRsp primary-CPICH-Information OPTIONAL, secondary-CPICH-InformationList S-CPICH-InformationList-AuditRsp OPTIONAL, primary-CCPCH-Information P-CCPCH-Information-AuditRsp OPTIONAL, bCH-Information BCH-Information-AuditRsp OPTIONAL, secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp OPTIONAL, pCH-Information PCH-Information-AuditRsp OPTIONAL, pICH-Information PICH-Information-AuditRsp OPTIONAL, fACH-InformationList FACH-InformationList-AuditRsp OPTIONAL, pRACH-InformationList PRACH-InformationList-AuditRsp OPTIONAL, rACH-InformationList RACH-InformationList-AuditRsp OPTIONAL,

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aICH-InformationList AICH-InformationList-AuditRsp OPTIONAL, notUsed-1-pCPCH-InformationList NULL OPTIONAL. notUsed-2-cPCH-InformationList NULL OPTIONAL. notUsed-3-aP-AICH-InformationList NULL OPTIONAL. notUsed-4-cDCA-ICH-InformationList NULL OPTIONAL. sCH-Information SCH-Information-AuditRsp OPTIONAL, ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs } } iE-Extensions OPTIONAL, . . . Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { PRESENCE optional }| { ID id-FPACH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditRsp -- Applicable to 1.28Mcps TDD only { ID id-DwPCH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } -- Applicable to 1.28Mcps TDD only { ID id-HSDSCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-AuditRsp PRESENCE optional }| -- For 1.28Mcps TDD, this HS-DSCH Resource Information is for the first Frequency repetition, HS-DSCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreg-HS-DSCH-Resources-InformationList-AuditRsp. ID id-MICH-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } { ID id-S-CCPCH-InformationListExt-AuditRsp CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-AuditRsp PRESENCE optional } -- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell. { ID id-S-CCPCH-LCR-InformationListExt-AuditRsp CRITICALITY ignore EXTENSION S-CCPCH-LCR-InformationListExt-AuditRsp PRESENCE optional } | -- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell. { ID id-E-DCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION E-DCH-Resources-Information-AuditRsp PRESENCE optional }| -- For 1.28Mcps TDD, this E-DCH Resource Information is for the first Frequency repetition, E-DCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreg-E-DCH-Resources-InformationList-AuditRsp. ID id-PLCCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION PLCCH-InformationList-AuditRsp PRESENCE optional ID id-P-CCPCH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional ID id-S-CCPCH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION S-CCPCH-768-InformationList-AuditRsp PRESENCE optional EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional ID id-PICH-768-Information-AuditRsp CRITICALITY ignore EXTENSION PRACH-768-InformationList-AuditRsp ID id-PRACH-768-InformationList-AuditRsp CRITICALITY ignore PRESENCE optional ID id-SCH-768-Information-AuditRsp CRITICALITY iqnore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional ID id-MICH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional ID id-E-RUCCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION E-RUCCH-InformationList-AuditRsp PRESENCE optional CRITICALITY ignore EXTENSION E-RUCCH-768-InformationList-AuditRsp ID id-E-RUCCH-768-InformationList-AuditRsp PRESENCE optional } CRITICALITY ignore EXTENSION Cell-Frequency-List-Information-LCR-MulFreq-ID id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp AuditRsp PRESENCE optional }| -- Applicable to 1.28Mcps TDD when using multiple frequencies ID id-UPPCH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION UPPCH-LCR-InformationList-AuditRsp PRESENCE optional } | -- Applicable to 1.28Mcps TDD only { ID id-multipleFreg-HS-DSCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreg-HS-DSCH-Resources-InformationList-PRESENCE optional }| AuditRsp -- Applicable to 1.28Mcps TDD when using multiple frequencies. This HS-DSCH Resource Information is for the 2nd and beyond frequencies. { ID id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreq-E-DCH-Resources-InformationList-PRESENCE optional }, AuditRsp -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-DCH Resource Information is for the 2nd and beyond frequencies. . . . P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }} P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {

{ ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }

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S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }} S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }} P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF Protocolle-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }} S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }} P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } BCH-Information-AuditRsp ::= ProtocollE-Single-Container {{ BCH-InformationIE-AuditRsp }} BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF Protocolle-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }} S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } PCH-Information-AuditRsp ::= ProtocollE-Single-Container {{ PCH-InformationIE-AuditRsp }} PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } } PICH-Information-AuditRsp ::= ProtocollE-Single-Container {{ PICH-InformationIE-AuditRsp }} PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocollE-Single-Container {{ FACH-InformationItemIE-AuditRsp }} FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }

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PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }} PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }} RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } AICH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }} AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }} SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }} FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE { resourceOperationalState ResourceOperationalState, availabilityStatus AvailabilityStatus, ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }} iE-Extensions OPTIONAL, . . . HS-DSCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UARFCNforNt CRITICALITY ignore optional }, EXTENSION UARFCN PRESENCE -- Applicable to 1.28Mcps TDD when using multiple frequencies. . . . S-CCPCH-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }} S-CCPCH-LCR-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp } } E-DCH-Resources-Information-AuditRsp ::= SEQUENCE { resourceOperationalState ResourceOperationalState, availabilityStatus AvailabilityStatus, iE-Extensions ProtocolExtensionContainer {{ E-DCH-Resources-Information-AuditRsp-ExtIEs }} OPTIONAL, . . .

```
E-DCH-Resources-Information-AuditRsp-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                         CRITICALITY ignore
                                                   EXTENSION UARFCN
                                                                            PRESENCE
                                                                                        optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
    . . .
PLCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-AuditRsp }}
PLCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PLCCH-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
3
S-CCPCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {{ S-CCPCH-768-InformationItemIE-
AuditRsp }}
S-CCPCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-768-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                         PRESENCE mandatory }
3
PRACH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-AuditRsp }}
PRACH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                      PRESENCE mandatory }
}
E-RUCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-InformationItemIE-AuditRsp }}
E-RUCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-E-RUCCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
E-RUCCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-768-InformationItemIE-
AuditRsp } }
E-RUCCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-E-RUCCH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                      PRESENCE mandatory }
Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-Frequency-
List-InformationIE-LCR-MulFreg-AuditRsp } }
Cell-Frequency-List-InformationIE-LCR-MulFreq-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp CRITICALITY ignore TYPE Cell-Frequency-List-InformationItem-LCR-MulFreq-
AuditRsp
               PRESENCE mandatory }
}
Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ::= SEQUENCE {
    UARFCN
                                       UARFCN,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs }}
    OPTIONAL,
```

```
. . .
3
Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
3
UPPCH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UPPCH-LCR-InformationIE-AuditRsp
}}
UPPCH-LCR-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-UPPCH-LCR-InformationItem-AuditRsp CRITICALITY ignore TYPE UPPCH-LCR-InformationItem-AuditRsp
                                                                                                                       PRESENCE mandatory }
}
UPPCH-LCR-InformationItem-AuditRsp ::= SEQUENCE {
    UARFCN
                                        UARFCN
                                                            OPTIONAL,
    uPPCHPositionLCR
                                        UPPCHPositionLCR,
                                        ResourceOperationalState,
    resourceOperationalState
    availabilityStatus
                                        AvailabilityStatus,
                                        ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-AuditRsp-ExtIEs }}
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
UPPCH-LCR-InformationItem-AuditRsp-Extles NBAP-PROTOCOL-EXTENSION ::= {
}
MultipleFreq-HS-DSCH-Resources-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container
{{ MultipleFreg-HS-DSCH-Resources-InformationItem-AuditRsp}}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-HS-DSCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
     ID id-HSDSCH-Resources-Information-AuditRsp CRITICALITY iqnore TYPE HS-DSCH-Resources-Information-AuditRsp PRESENCE mandatory }
}
MultipleFreq-E-DCH-Resources-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container {{ MultipleFreq-
E-DCH-Resources-InformationItem-AuditRsp} }
    -- Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-E-DCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-E-DCH-Resources-Information-AuditRsp
                                                 CRITICALITY ignore TYPE E-DCH-Resources-Information-AuditRsp
                                                                                                                       PRESENCE mandatory }
CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF Protocolle-Single-Container {{ CCP-InformationItemIE-AuditRsp }}
CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CCP-InformationItem-AuditRsp
                                                    CRITICALITY ignore
                                                                                TYPE CCP-InformationItem-AuditRsp
                                                                                                                          PRESENCE mandatory }
}
CCP-InformationItem-AuditRsp ::= SEQUENCE {
    communicationControlPortID
                                        CommunicationControlPortID,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
```

ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }} iE-Extensions OPTIONAL, CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-AuditRsp } } Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-InformationItem-AuditRsp PRESENCE mandatory } Local-Cell-InformationItem-AuditRsp ::= SEQUENCE { local-Cell-ID Local-Cell-ID, dl-or-global-capacityCredit DL-or-Global-CapacityCredit, ul-capacityCredit UL-CapacityCredit OPTIONAL, commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw, dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw, maximumDL-PowerCapability MaximumDL-PowerCapability OPTIONAL, minSpreadingFactor MinSpreadingFactor OPTIONAL, minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL, local-Cell-Group-ID Local-Cell-ID OPTIONAL, iE-Extensions ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}} OPTIONAL, . . . Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional } ID id-Power-Local-Cell-Group-ID CRITICALITY ignore EXTENSION Local-Cell-ID PRESENCE optional } ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional ID id-E-DCH-Capability CRITICALITY ignore EXTENSION E-DCH-Capability PRESENCE optional } ID id-E-DCH-TTI2ms-Capability CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability PRESENCE conditional } -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. { ID id-E-DCH-SF-Capability CRITICALITY ignore EXTENSION E-DCH-SF-Capability PRESENCE conditional }| -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. { ID id-E-DCH-HARO-Combining-Capability CRITICALITY ignore EXTENSION E-DCH-HARO-Combining-Capability PRESENCE conditional } -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional } ID id-F-DPCH-Capability PRESENCE optional } CRITICALITY ignore EXTENSION F-DPCH-Capability ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional } ID id-ContinuousPacketConnectivityDTX-DRX-Capability EXTENSION ContinuousPacketConnectivityDTX-DRX-CRITICALITY ignore PRESENCE optional } Capability { ID id-Max-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle PRESENCE conditional } -- The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-DRX Capable'. { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Capability PRESENCE optional } ID id-MIMO-Capability CRITICALITY ignore EXTENSION MIMO-Capability PRESENCE optional } ID id-SixtyfourQAM-DL-Capability CRITICALITY ignore EXTENSION SixtyfourOAM-DL-Capability PRESENCE optional } ID id-MBMS-Capability CRITICALITY ignore EXTENSION MBMS-Capability PRESENCE optional } ID id-Enhanced-FACH-Capability CRITICALITY ignore EXTENSION Enhanced-FACH-Capability PRESENCE optional }

{ ID id-Enhanced-PCH-Capability CRITICALITY ignore EXTENSION Enhanced-PCH-Capability PRESENCE conditional }| -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'. ID id-SixteenOAM-UL-Capability CRITICALITY ignore EXTENSION SixteenOAM-UL-Capability PRESENCE optional ID id-HSDSCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability PRESENCE optional ID id-MBSFN-Only-Mode-Capability CRITICALITY ignore EXTENSION MBSFN-Only-Mode-Capability PRESENCE optional ID id-F-DPCH-SlotFormatCapability CRITICALITY ignore EXTENSION F-DPCH-SlotFormatCapability PRESENCE optional ID id-E-DPCCH-Power-Boosting-Capability CRITICALITY ignore EXTENSION E-DPCCH-Power-Boosting-Capability PRESENCE optional } ID id-MIMO-Power-Offset-For-S-CPICH-Capability CRITICALITY ignore EXTENSION MIMO-PowerOffsetForS-CPICHCapability PRESENCE optional } ID id-TxDiversityOnDLControlChannelsByMIMOUECapability CRITICALITY iqnore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability PRESENCE optional }| { ID id-PrecodingWeightSetRestriction PRESENCE optional }, CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction . . . Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-AuditRsp }} Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { ID id-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-AuditRsp PRESENCE mandatory Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE { local-Cell-Group-ID Local-Cell-ID, dl-or-global-capacityCredit DL-or-Global-CapacityCredit, ul-capacityCredit UL-CapacityCredit OPTIONAL, commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw, dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw, iE-Extensions ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}} OPTIONAL, . . . Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional }| ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }, . . . Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE-AuditRsp }} Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= · { ID id-Power-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-PRESENCE mandatory} AuditRsp Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE { power-Local-Cell-Group-ID Local-Cell-ID, maximumDL-PowerCapability MaximumDL-PowerCapability, iE-Extensions ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}} OPTIONAL, . . .

Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

. . . - --- AUDIT FAILURE AuditFailure ::= SEQUENCE { {{AuditFailure-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{AuditFailure-Extensions}} protocolExtensions OPTIONAL, . . . } AuditFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- COMMON MEASUREMENT INITIATION REQUEST CommonMeasurementInitiationRequest ::= SEQUENCE { ProtocolIE-Container protocolIEs {{CommonMeasurementInitiationRequest-IEs}}, {{CommonMeasurementInitiationRequest-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . } CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory ID id-CommonMeasurementObjectType-CM-Rqst PRESENCE mandatory CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst ID id-CommonMeasurementType CRITICALITY reject TYPE CommonMeasurementType PRESENCE mandatory ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient PRESENCE optional } ID id-ReportCharacteristics CRITICALITY reject TYPE ReportCharacteristics PRESENCE mandatory ID id-SFNReportingIndicator CRITICALITY reject TYPE FNReportingIndicator PRESENCE mandatory } CRITICALITY reject TYPE SFN PRESENCE optional }, ID id-SFN . . . } CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-CommonMeasurementAccuracy PRESENCE optional } | CRITICALITY reject EXTENSION CommonMeasurementAccuracy ID id-MeasurementRecoveryBehavior CRITICALITY ignore EXTENSION MeasurementRecoveryBehavior PRESENCE optional } ID id-RTWP-ReportingIndicator CRITICALITY reject EXTENSION RTWP-ReportingIndicator PRESENCE optional } |

```
{ ID id-RTWP-CellPortion-ReportingIndicator
                                                             CRITICALITY reject
                                                                                     EXTENSION RTWP-CellPortion-ReportingIndicator
    PRESENCE optional } |
    { ID id-Reference-ReceivedTotalWideBandPowerReporting
                                                            CRITICALITY ignore
                                                                                     EXTENSION Reference-ReceivedTotalWideBandPowerReporting
    PRESENCE optional },
    . . .
CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell
                                    Cell-CM-Rqst,
    rACH
                                    RACH-CM-Rqst,
    notUsed-cPCH
                                    NULL,
    ...,
    extension-CommonMeasurementObjectType-CM-Rgst
                                                         Extension-CommonMeasurementObjectType-CM-Rgst
Extension-CommonMeasurementObjectType-CM-Rgst ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RgstIE }}
Extension-CommonMeasurementObjectType-CM-RgstIE NBAP-PROTOCOL-IES ::= {
     ID id-Power-Local-Cell-Group-choice-CM-Rqst CRITICALITY reject TYPE PowerLocalCellGroup-CM-Rqst
                                                                                                                     PRESENCE mandatory }
Cell-CM-Rqst ::= SEQUENCE {
    C-TD
                                    C-ID,
    timeSlot
                                    TimeSlot
                                                OPTIONAL,
                                                           -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
                                    ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs} }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
CellItem-CM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                                                           PRESENCE optional }|
    { ID id-TimeSlotLCR-CM-Rqst
                                                     CRITICALITY reject EXTENSION TimeSlotLCR
    -- Applicable to 1.28Mcps TDD only
    {ID id-NeighbouringCellMeasurementInformation
                                                    CRITICALITY ignore EXTENSION NeighbouringCellMeasurementInformation PRESENCE optional }
    {ID id-UARFCNforNt
                                                     CRITICALITY reject EXTENSION UARFCN
                                                                                                                           PRESENCE optional
    {ID id-UPPCHPositionLCR
                                                     CRITICALITY reject EXTENSION UPPCHPositionLCR
                                                                                                                           PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    {ID id-AdditionalTimeSlotListLCR
                                                     CRITICALITY ignore EXTENSION AdditionalTimeSlotListLCR
                                                                                                                           PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
RACH-CM-Rqst ::= SEQUENCE {
    c-ID
                                    C-ID.
                                    CommonTransportChannelID,
    commonTransportChannelID
    iE-Extensions
                                    ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } }
                                                                                                                     OPTIONAL,
    . . .
RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerLocalCellGroup-CM-Rqst ::= SEQUENCE {
    powerLocalCellGroupID
                                    Local-Cell-ID,
    iE-Extensions
                                    ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rqst-ExtIEs }}
                                                                                                                     OPTIONAL,
```

. . . } PowerLocalCellGroup-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { COMMON MEASUREMENT INITIATION RESPONSE CommonMeasurementInitiationResponse ::= SEQUENCE { ProtocolIE-Container {{CommonMeasurementInitiationResponse-IEs}}, protocolIEs protocolExtensions ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}} OPTIONAL, . . . CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory }| TYPE CommonMeasurementObjectType-CM-Rsp ID id-CommonMeasurementObjectType-CM-Rsp CRITICALITY ignore PRESENCE optional }| ID id-SFN CRITICALITY ignore TYPE SFN PRESENCE optional }| ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-CommonMeasurementAccuracy CRITICALITY ignore EXTENSION CommonMeasurementAccuracy PRESENCE optional ID id-MeasurementRecoverySupportIndicator CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional ID id-Reference-ReceivedTotalWideBandPowerSupportIndicator CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPowerSupportIndicator PRESENCE optional }| ID id-Reference-ReceivedTotalWideBandPower CRITICALITY ignore Reference-EXTENSION ReceivedTotalWideBandPower PRESENCE optional }, . . . CommonMeasurementObjectType-CM-Rsp ::= CHOICE { cell Cell-CM-Rsp, rACH RACH-CM-Rsp, notUsed-cPCH NULL, . . . , extension-CommonMeasurementObjectType-CM-Rsp Extension-CommonMeasurementObjectType-CM-Rsp Extension-CommonMeasurementObjectType-CM-Rsp ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RspIE }} Extension-CommonMeasurementObjectType-CM-RspIE NBAP-PROTOCOL-IES ::= { ID id-Power-Local-Cell-Group-choice-CM-Rsp CRITICALITY iqnore TYPE PowerLocalCellGroup-CM-Rsp PRESENCE mandatory } } Cell-CM-Rsp ::= SEQUENCE { commonMeasurementValue CommonMeasurementValue, iE-Extensions ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs } } OPTIONAL,

```
. . .
}
CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-AdditionalMeasurementValueList
                                             CRITICALITY ignore EXTENSION AdditionalMeasurementValueList
                                                                                                             PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    {ID id-TimeSlotMeasurementValueListLCR
                                             CRITICALITY ignore EXTENSION TimeSlotMeasurementValueListLCR
                                                                                                             PRESENCE optional },
-- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency
    . . .
RACH-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                  CommonMeasurementValue,
   iE-Extensions
                                  ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs } }
                                                                                                             OPTIONAL
    . . .
}
RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerLocalCellGroup-CM-Rsp ::= SEQUENCE {
                                  CommonMeasurementValue,
   commonMeasurementValue
                                  ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rsp-ExtIEs}}
   iE-Extensions
                                                                                                                OPTIONAL,
    . . .
}
PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
- -
-- COMMON MEASUREMENT INITIATION FAILURE
- -
  *****
CommonMeasurementInitiationFailure ::= SEQUENCE {
                         ProtocolIE-Container
                                                     {{CommonMeasurementInitiationFailure-IEs}},
   protocolIEs
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                                OPTIONAL,
    . . .
}
CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY ignore
                                                                                                              PRESENCE mandatory
                                                                TYPE MeasurementID
     ID id-Cause
                                     CRITICALITY ignore
                                                                TYPE Cause
                                                                                                             PRESENCE mandatory
    { ID id-CriticalityDiagnostics
                                     CRITICALITY iqnore
                                                                TYPE CriticalityDiagnostics
                                                                                                             PRESENCE optional },
    . . .
}
CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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\_ \_ COMMON MEASUREMENT REPORT \_ \_ \*\*\*\*\*\*\*\*\* CommonMeasurementReport ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonMeasurementReport-IEs}}, protocolExtensions ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}} OPTIONAL, . . . CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory ID id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore TYPE CommonMeasurementObjectType-CM-Rprt PRESENCE mandatory ID id-SFN CRITICALITY ignore TYPE SFN PRESENCE optional }, . . . CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-MeasurementRecoveryReportingIndicator CRITICALITY iqnore EXTENSION MeasurementRecoveryReportingIndicator PRESENCE optional }| { ID id-Reference-ReceivedTotalWideBandPower EXTENSION Reference-ReceivedTotalWideBandPower CRITICALITY ignore PRESENCE optional }, . . . CommonMeasurementObjectType-CM-Rprt ::= CHOICE { cell Cell-CM-Rprt, rACH RACH-CM-Rprt, notUsed-cPCH NULL, ..., extension-CommonMeasurementObjectType-CM-Rprt Extension-CommonMeasurementObjectType-CM-Rprt Extension-CommonMeasurementObjectType-CM-Rprt ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RprtIE }} Extension-CommonMeasurementObjectType-CM-RprtIE NBAP-PROTOCOL-IES ::= { ID id-Power-Local-Cell-Group-choice-CM-Rprt CRITICALITY iqnore TYPE PowerLocalCellGroup-CM-Rprt PRESENCE mandatory } Cell-CM-Rprt ::= SEQUENCE { commonMeasurementValueInformation CommonMeasurementValueInformation, ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }} iE-Extensions OPTIONAL, . . . } CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-AdditionalMeasurementValueList CRITICALITY ignore EXTENSION AdditionalMeasurementValueList PRESENCE optional }| -- Applicable to 1.28Mcps TDD only {ID id-TimeSlotMeasurementValueListLCR CRITICALITY ignore EXTENSION TimeSlotMeasurementValueListLCR PRESENCE optional }, -- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency . . .

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RACH-CM-Rprt ::= SEQUENCE { commonMeasurementValueInformation CommonMeasurementValueInformation, iE-Extensions ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }} OPTIONAL . . . } RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . PowerLocalCellGroup-CM-Rprt ::= SEQUENCE { commonMeasurementValueInformation CommonMeasurementValueInformation, iE-Extensions ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rprt-ExtIEs}} OPTIONAL, . . . } PowerLocalCellGroup-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { - --- COMMON MEASUREMENT TERMINATION REQUEST CommonMeasurementTerminationReguest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonMeasurementTerminationRequest-IEs}}, {{CommonMeasurementTerminationRequest-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= { { ID id-MeasurementID CRITICALITY ignore PRESENCE mandatory }, TYPE MeasurementID . . . CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- COMMON MEASUREMENT FAILURE INDICATION CommonMeasurementFailureIndication ::= SEQUENCE { protocolIEs ProtocolIE-Container {CommonMeasurementFailureIndication-IEs}}, protocolExtensions ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}} OPTIONAL, . . . } CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {

```
ID id-MeasurementID
                                  CRITICALITY ignore
                                                                                        PRESENCE mandatory } |
                                                             TYPE MeasurementID
     ID id-Cause
                                  CRITICALITY ignore
                                                             TYPE Cause
                                                                                        PRESENCE mandatory },
    . . .
CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     CELL SETUP REQUEST FDD
- -
   CellSetupReguestFDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                      {{CellSetupReguestFDD-IEs}},
    protocolIEs
                                                     {{CellSetupRequestFDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                            OPTIONAL,
    . . .
3
CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-Local-Cell-ID
                                                             CRITICALITY reject TYPE Local-Cell-ID
                                                                                                                          PRESENCE mandatory
}|
     ID id-C-ID
                                                             CRITICALITY reject TYPE C-ID
                                                                                                                          PRESENCE mandatory
}|
     ID id-ConfigurationGenerationID
                                                             CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                          PRESENCE mandatory
}|
    ID id-T-Cell
                                                             CRITICALITY reject TYPE T-Cell
                                                                                                                          PRESENCE mandatory
}|
     ID id-UARFCNforNu
                                                             CRITICALITY reject TYPE UARFCN
                                                                                                                          PRESENCE mandatory
}|
     ID id-UARFCNforNd
                                                             CRITICALITY reject TYPE UARFCN
                                                                                                                          PRESENCE mandatory
}|
    ID id-MaximumTransmissionPower
                                                             CRITICALITY reject TYPE MaximumTransmissionPower
                                                                                                                          PRESENCE mandatory
}|
     ID id-Closed-Loop-Timing-Adjustment-Mode
                                                             CRITICALITY reject TYPE Closedlooptimingadjustmentmode
                                                                                                                          PRESENCE optional }|
     ID id-PrimaryScramblingCode
                                                             CRITICALITY reject TYPE PrimaryScramblingCode
                                                                                                                          PRESENCE mandatory
}|
    { ID id-Synchronisation-Configuration-Cell-SetupRqst
                                                             CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
                                                                                                                                     PRESENCE
    mandatory }|
    { ID id-DL-TPC-Pattern01Count
                                                             CRITICALITY reject TYPE DL-TPC-Pattern01Count
                                                                                                                          PRESENCE mandatory
}|
    { ID id-PrimarySCH-Information-Cell-SetupRqstFDD
                                                             CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD
                                                                                                                                     PRESENCE
    mandatorv }|
    { ID id-SecondarySCH-Information-Cell-SetupRqstFDD
                                                             CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD
                                                                                                                                     PRESENCE
mandatorv }|
    { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD
                                                             CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD
                                                                                                                                     PRESENCE
    mandatory }|
    { ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD
                                                             CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD
                                                                                                                                     PRESENCE
    optional }
    { ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD
                                                             CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD
                                                                                                                                     PRESENCE
   mandatory }|
```

```
{ ID id-Limited-power-increase-information-Cell-SetupRqstFDD
                                                                     CRITICALITY reject TYPE Limited-power-increase-information-Cell-SetupRqstFDD
        PRESENCE mandatory },
    . . .
CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-IPDLParameter-Information-Cell-SetupRqstFDD
                                                             CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstFDD
    PRESENCE optional }|
    { ID id-CellPortion-InformationList-Cell-SetupRgstFDD
                                                             CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRqstFDD
    PRESENCE optional }
     ID id-MIMO-PilotConfiguration
                                                             CRITICALITY reject EXTENSION MIMO-PilotConfiguration
                                                                                                                           PRESENCE optional }|
    { ID id-MIMO-PilotConfigurationExtension
                                                             CRITICALITY reject EXTENSION MIMO-PilotConfigurationExtension PRESENCE optional },
    . . .
Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE
    n-INSYNC-IND
                            N-INSYNC-IND,
    n-OUTSYNC-IND
                            N-OUTSYNC-IND,
    t-RLFAILURE
                            T-RLFAILURE,
                            ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    primarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                                    OPTIONAL,
    . . .
PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    secondarySCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
```

```
transmitDiversityIndicator
                                            TransmitDiversityIndicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRgstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL.
    . . .
PrimaryCPICH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
     ID id-SecondaryCPICH-InformationItem-Cell-SetupRgstFDD
                                                                     CRITICALITY reject TYPE SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
    PRESENCE mandatory }
}
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber.
    secondaryCPICH-Power
                                            DL-Power,
    transmitDiversityIndicator
                                            TransmitDiversityIndicator,
                                            ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
   bCH-information
                                            BCH-Information-Cell-SetupRqstFDD,
    sTTD-Indicator
                                            STTD-Indicator,
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
   bCH-Power
                                            DL-Power,
   iE-Extensions
                                            ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
   powerRaiseLimit
                                         PowerRaiseLimit.
   dLPowerAveragingWindowSize
                                         DLPowerAveragingWindowSize.
   iE-Extensions
                                         ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRgstFDD-ExtIEs } }
   OPTIONAL,
    . . .
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-Cell-SetupRgstFDD::= SEQUENCE {
   iPDL-FDD-Parameters
                                         IPDL-FDD-Parameters.
   iPDL-Indicator
                                         IPDL-Indicator,
   iE-Extensions
                                         ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRgstFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CellPortion-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-
InformationItemIE-Cell-SetupRqstFDD }}
CellPortion-InformationItemIE-Cell-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CellPortion-InformationItem-Cell-SetupRgstFDD CRITICALITY reject TYPE CellPortion-InformationItem-Cell-SetupRgstFDD
    PRESENCE mandatory }
}
CellPortion-InformationItem-Cell-SetupRqstFDD::= SEQUENCE
   cellPortionID
                                         CellPortionID,
                                         CommonPhysicalChannelID,
   associatedSecondaryCPICH
   maximumTransmissionPowerforCellPortion MaximumTransmissionPower,
                                         ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-SetupRgstFDD-ExtIEs } }
   iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
CellPortion-InformationItem-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
. . .
      -- CELL SETUP REQUEST TDD
- -
CellSetupRequestTDD ::= SEQUENCE {
                                                     {{CellSetupRequestTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                                                    {{CellSetupRequestTDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                           OPTIONAL,
    . . .
```

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-ID CRITICALITY reject TYPE Local-Cell-ID PRESENCE mandatory }| { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory }| { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }| { ID id-UARFCNforNt CRITICALITY reject TYPE UARFCN PRESENCE mandatory -- For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary frequency PRESENCE mandatory { ID id-CellParameterID CRITICALITY reject TYPE CellParameterID }| -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE indicate the Preamble code used in the Speial Time Slot [19] { ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower PRESENCE mandatory } | ID id-TransmissionDiversityApplied CRITICALITY reject TYPE TransmissionDiversityApplied PRESENCE mandatory }| { ID id-SyncCase CRITICALITY reject TYPE SyncCase PRESENCE mandatory } | { ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst PRESENCE mandatory } | { ID id-DPCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE mandatory }| -- This IE shall be ignored by the Node B. { ID id-PUSCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE mandatory }| -- This IE shall be ignored by the Node B. { ID id-PRACHConstant CRITICALITY reject TYPE ConstantValue PRESENCE mandatory }| -- This IE shall be ignored by the Node B. { ID id-TimingAdvanceApplied CRITICALITY reject TYPE TimingAdvanceApplied PRESENCE mandatory } | { ID id-SCH-Information-Cell-SetupRqstTDD PRESENCE optional }| CRITICALITY reject TYPE SCH-Information-Cell-SetupRqstTDD -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD { ID id-PCCPCH-Information-Cell-SetupRqstTDD CRITICALITY reject TYPE PCCPCH-Information-Cell-SetupRqstTDD PRESENCE optional }| -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD { ID id-TimeSlotConfigurationList-Cell-SetupRqstTDD CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-SetupRqstTDD PRESENCE optional }, -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD . . . CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot configuration of Primary frequency. { ID id-PCCPCH-LCR-Information-Cell-SetupRqstTDD CRITICALITY reject EXTENSION PCCPCH-LCR-Information-Cell-SetupRqstTDD PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD, For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot [19]. { ID id-DwPCH-LCR-Information-Cell-SetupRqstTDD CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-SetupRqstTDD PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD CRITICALITY ignore EXTENSION ReferenceSFNoffset { ID id-ReferenceSFNoffset PRESENCE optional } { ID id-IPDLParameter-Information-Cell-SetupRgstTDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstTDD PRESENCE optional } -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only { ID id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-SetupRqstTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only

```
{ ID id-PCCPCH-768-Information-Cell-SetupRqstTDD
                                                                CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-SetupRqstTDD
    PRESENCE optional } -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
    { ID id-SCH-768-Information-Cell-SetupRgstTDD
                                                                CRITICALITY reject EXTENSION SCH-768-Information-Cell-SetupRgstTDD
    PRESENCE optional } -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
    { ID id-MBSFN-Only-Mode-Indicator-Cell-SetupRgstTDD-LCR
                                                                CRITICALITY reject EXTENSION MBSFN-Only-Mode-Indicator
    PRESENCE optional }|
    { ID id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD CRITICALITY reject EXTENSION Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD
    PRESENCE optional }, -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    syncCaseIndicator
                                            SyncCaseIndicator-Cell-SetupRgstTDD-PSCH,
    sCH-Power
                                            DL-Power,
    tSTD-Indicator
                                            TSTD-Indicator,
                                            ProtocolExtensionContainer { { SCH-Information-Cell-SetupRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
SCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-Single-Container {{ SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH }}
SyncCaseIndicatorIE-Cell-SetupRgstTDD-PSCH NBAP-PROTOCOL-IES ::= {
    { ID id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH CRITICALITY reject TYPE SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH
                                                                                                                                      PRESENCE
mandatory }
}
SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE
    case1
                                        Case1-Cell-SetupRqstTDD,
                                        Case2-Cell-SetupRqstTDD,
    case2
    . . .
Case1-Cell-SetupRgstTDD ::= SEQUENCE
                                        TimeSlot,
    timeSlot
    iE-Extensions
                                        ProtocolExtensionContainer { { CaselItem-Cell-SetupRgstTDD-ExtIEs} }
                                                                                                                       OPTIONAL,
    . . .
Case1Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Case2-Cell-SetupRqstTDD ::= SEQUENCE {
    sCH-TimeSlot
                                        SCH-TimeSlot,
                                        ProtocolExtensionContainer { { Case2Item-Cell-SetupRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
```

```
Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    pCCPCH-Power
                                            PCCPCH-Power,
                                            SCTD-Indicator,
    sCTD-Indicator
    iE-Extensions
                                            ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-Cell-SetupRgstTDD ::= SEOUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-SetupRgstTDD
TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD
                                                                 CRITICALITY reject EXTENSION CellParameterID
                                                                                                                         PRESENCE optional }, --
Applicable only to for MBSFN only mode
    . . .
TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    timeSlotStatus
                                            TimeSlotStatus,
    timeSlotDirection
                                            TimeSlotDirection,
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Time-Slot-Parameter-ID
                                                             CRITICALITY reject
                                                                                          EXTENSION CellParameterID
                                                                                                                               PRESENCE optional },
   . . .
}
PCCPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
```

```
pCCPCH-Power
                                             PCCPCH-Power,
    sCTD-Indicator
                                             SCTD-Indicator.
    tSTD-Indicator
                                             TSTD-Indicator.
                                             ProtocolExtensionContainer { { PCCPCH-LCR-Information-Cell-SetupRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
۱
PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DwPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
                                    CommonPhysicalChannelID,
    commonPhysicalChannelId
    tSTD-Indicator
                                    TSTD-Indicator,
    dwPCH-Power
                                    DwPCH-Power,
    iE-Extensions
                                     ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-SetupRgstTDD-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
DwPCH-LCR-Information-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-Cell-SetupRgstTDD ::= SEOUENCE {
    iPDL-TDD-Parameters
                                             IPDL-TDD-Parameters,
    iPDL-Indicator
                                             IPDL-Indicator.
    iE-Extensions
                                             ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRgstTDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
}
IPDLParameter-Information-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters-LCR
                                            IPDL-TDD-Parameters-LCR,
    iPDL-Indicator
                                             IPDL-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-SetupRgstTDD-ExtIEs } }
                                                                                                                                            OPTIONAL,
    . . .
}
IPDLParameter-Information-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCCPCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE
    commonPhysicalChannelID768
                                             CommonPhysicalChannelID768.
    tdd-PhysicalChannelOffset
                                             TDD-PhysicalChannelOffset,
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    pCCPCH-Power
                                             PCCPCH-Power,
    sCTD-Indicator
                                             SCTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-SetupRqstTDD-ExtIEs } }
                                                                                                                                      OPTIONAL,
```

```
}
PCCPCH-768-Information-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
SCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE {
   commonPhysicalChannelID768
                                         CommonPhysicalChannelID768,
   syncCaseIndicator
                                         SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
   sCH-Power
                                         DL-Power,
   tSTD-Indicator
                                         TSTD-Indicator,
                                         ProtocolExtensionContainer { { SCH-768-Information-Cell-SetupRqstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
   . . .
SCH-768-Information-Cell-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-Item-LCR-MulFreq-Cell-
SetupRqstTDD
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE
   UARFCN
                                                         UARFCN,
   -- This IE indicates the frequency of Secondary frequency
   timeSlotConfigurationList-LCR-Cell-SetupRqstTDD
                                                        TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,
   -- This IE indicates the Time Slot configuration of Secondary frequency
   iE-Extensions
                                         ProtocolExtensionContainer { { Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs } }
   OPTIONAL,
   . . .
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
      - -
-- CELL SETUP RESPONSE
- -
CellSetupResponse ::= SEQUENCE {
                                                         {{CellSetupResponse-IEs}},
   protocolIEs
                            ProtocolIE-Container
                             ProtocolExtensionContainer {{CellSetupResponse-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
}
CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                     CRITICALITY ignore
                                                                TYPE CriticalityDiagnostics
                                                                                                             PRESENCE optional },
   . . .
}
CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

. . . -- CELL SETUP FAILURE - -CellSetupFailure ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellSetupFailure-IEs}}, protocolExtensions ProtocolExtensionContainer {{CellSetupFailure-Extensions}} OPTIONAL, . . . CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }| ID id-CriticalityDiagnostics TYPE CriticalityDiagnostics CRITICALITY ignore PRESENCE optional }, . . . } CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { - --- CELL RECONFIGURATION REQUEST FDD - -\*\*\*\* CellReconfigurationRequestFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellReconfigurationReguestFDD-IEs}}, ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}} protocolExtensions OPTIONAL, . . . CellReconfigurationReguestFDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } | { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory } | id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower { ID PRESENCE optional }| { ID id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRgst PRESENCE optional } { ID id-PrimarySCH-Information-Cell-ReconfRqstFDD CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional } { ID id-SecondarySCH-Information-Cell-ReconfRqstFDD CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRqstFDD PRESENCE optional } { ID id-PrimaryCPICH-Information-Cell-ReconfRqstFDD CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD PRESENCE optional } { ID id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD PRESENCE optional }|

```
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
                                                                     CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    { ID
    PRESENCE optional },
    . . .
CellReconfigurationReguestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID
           id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
    PRESENCE optional }
    { ID id-CellPortion-InformationList-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-ReconfRqstFDD
    PRESENCE optional }
    { ID id-MIMO-PilotConfiguration
                                                             CRITICALITY reject EXTENSION MIMO-PilotConfiguration
    PRESENCE optional }
    { ID id-MIMO-PilotConfigurationExtension
                                                             CRITICALITY reject EXTENSION MIMO-PilotConfigurationExtension
    PRESENCE optional },
    . . .
Synchronisation-Configuration-Cell-ReconfRgst ::= SEOUENCE {
    n-INSYNC-IND
                           N-INSYNC-IND,
    n-OUTSYNC-IND
                            N-OUTSYNC-IND,
    t-RLFAILURE
                           T-RLFAILURE,
                            ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs } }
                                                                                                                        OPTIONAL,
    iE-Extensions
    . . .
Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
                                            CommonPhysicalChannelID,
    commonPhysicalChannelID
    primarySCH-Power
                                            DL-Power,
   iE-Extensions
                                            ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondarySCH-Power
                                            DL-Power,
                                            ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
```

```
ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRgstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD CRITICALITY reject TYPE
                                                                                                  SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD
        PRESENCE mandatory }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    secondaryCPICH-Power
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs } }
    OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
PrimaryCCPCH-Information-Cell-ReconfRgstFDD ::= SEQUENCE {
                                            BCH-information-Cell-ReconfRgstFDD,
    bCH-information
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    bCH-Power
                                            DL-Power,
                                            ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                                IPDL-FDD-Parameters
                                                                         OPTIONAL,
    iPDL-Indicator
                                                 IPDL-Indicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
```

IPDLParameter-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } CellPortion-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-InformationItemIE-Cell-ReconfRqstFDD }} CellPortion-InformationItemIE-Cell-ReconfRgstFDD NBAP-PROTOCOL-IES ::= { { ID id-CellPortion-InformationItem-Cell-ReconfRqstFDD CRITICALITY reject TYPE CellPortion-InformationItem-Cell-ReconfRqstFDD PRESENCE mandatory } } CellPortion-InformationItem-Cell-ReconfRqstFDD::= SEQUENCE { cellPortionID CellPortionID, maximumTransmissionPowerforCellPortion MaximumTransmissionPower, iE-Extensions ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-ReconfRgstFDD-ExtIEs } } OPTIONAL, . . . 3 CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { - --- CELL RECONFIGURATION REQUEST TDD CellReconfigurationRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellReconfigurationReguestTDD-IEs}}, ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . CellReconfigurationReguestTDD-IES NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory } | ID id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst PRESENCE optional } ID id-TimingAdvanceApplied CRITICALITY reject TYPE TimingAdvanceApplied PRESENCE optional } { ID id-SCH-Information-Cell-ReconfRqstTDD CRITICALITY reject TYPE SCH-Information-Cell-ReconfRqstTDD PRESENCE optional } -- Applicable to 3.84Mcps TDD only { ID id-PCCPCH-Information-Cell-ReconfRqstTDD CRITICALITY reject TYPE PCCPCH-Information-Cell-ReconfRqstTDD PRESENCE optional } -- Not applicable to 7.68Mcps TDD only. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot [19]. { ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower PRESENCE optional } PRESENCE optional }| { ID id-DPCHConstant CRITICALITY reject TYPE ConstantValue -- This IE shall be ignored by the Node B. { ID id-PUSCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE optional }| -- This IE shall be ignored by the Node B. { ID id-PRACHConstant CRITICALITY reject TYPE ConstantValue PRESENCE optional }|

```
-- This IE shall be ignored by the Node B.
    { ID id-TimeSlotConfigurationList-Cell-ReconfRgstTDD CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-ReconfRgstTDD
                                                                                                                                    PRESENCE
optional }.
    -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD only. Not Applicable to 1.28Mcps TDD.
    . . .
CellReconfigurationReguestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD
    PRESENCE optional }|
                         -- Applicable to 1.28Mcps TDD only, If multiple frequencies exist within the cell indicated by C-ID, this IE indicates
the Time Slot reconfiguration of Primary frequency
    { ID id-DwPCH-LCR-Information-Cell-ReconfRqstTDD
                                                               CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID
          id-IPDLParameter-Information-Cell-ReconfRgstTDD
                                                               CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRgstTDD
    PRESENCE optional } -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
    { ID id-IPDLParameter-Information-LCR-Cell-ReconfRgstTDD CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-ReconfRgstTDD
    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-SCH-768-Information-Cell-ReconfRqstTDD
                                                               CRITICALITY reject EXTENSION SCH-768-Information-Cell-ReconfRqstTDD
    PRESENCE optional } -- Applicable to 7.68Mcps TDD only
    { ID id-PCCPCH-768-Information-Cell-ReconfRqstTDD
                                                               CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-ReconfRgstTDD
    PRESENCE optional }|
                         -- Applicable to 7.68Mcps TDD only
    { ID id-UARFCN-Adjustment
                                                               CRITICALITY reject EXTENSION UARFCN-Adjustment
    PRESENCE optional },
                          -- Applicable to 1.28Mcps TDD when using multiple frequencies
    . . .
SCH-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                           CommonPhysicalChannelID,
    sCH-Power
                                           DL-Power,
                                           ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
PSCH-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID
                                           CommonPhysicalChannelID,
    pCCPCH-Power
                                           PCCPCH-Power,
                                           ProtocolExtensionContainer { { PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
PCCPCH-Information-Cell-ReconfRostTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRqstTDD
TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                           TimeSlot,
    timeSlotStatus
                                           TimeSlotStatus,
    timeSlotDirection
                                           TimeSlotDirection,
```

```
ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
TimeSlotConfigurationItem-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD
                                                                                                                         PRESENCE optional },
                                                                 CRITICALITY reject EXTENSION CellParameterID
    . . .
}
TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR.
    timeSlotStatus
                                            TimeSlotStatus.
    timeSlotDirection
                                            TimeSlotDirection,
    iE-Extensions
                                            ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-ReconfRgstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
TimeSlotConfigurationItem-LCR-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DwPCH-LCR-Information-Cell-ReconfRostTDD ::= SEOUENCE
    commonPhysicalChannelId
                                            CommonPhysicalChannelID,
    dwPCH-Power
                                            DwPCH-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-ReconfRgstTDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
DwPCH-LCR-Information-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-Cell-ReconfRqstTDD ::= SEQUENCE
   iPDL-TDD-Parameters
                                            IPDL-TDD-Parameters
                                                                     OPTIONAL,
   iPDL-Indicator
                                            IPDL-Indicator,
                                            ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRgstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
   iPDL-TDD-Parameters-LCR
                                            IPDL-TDD-Parameters-LCR
                                                                         OPTIONAL,
   iPDL-Indicator
                                            IPDL-Indicator,
   iE-Extensions
                                            ProtocolExtensionContainer { { IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs} }
                                                                                                                                           OPTIONAL,
    . . .
}
IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
SCH-768-Information-Cell-ReconfRgstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                            CommonPhysicalChannelID768,
    sCH-Power
                                            DL-Power.
                                            ProtocolExtensionContainer { { PSCH-768-Information-Cell-ReconfRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
}
PSCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PCCPCH-768-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768
                                            CommonPhysicalChannelID768,
    pCCPCH-Power
                                            PCCPCH-Power,
   iE-Extensions
                                            ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-ReconfRgstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
PCCPCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UARFCN-Adjustment::= CHOICE {
    cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD
                                                                     Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD,
    cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRgstTDD
                                                                     Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD,
    cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD
                                                                     Cell-Frequency-Delete-LCR-MulFreg-Cell-ReconfRgstTDD,
    . . .
}
Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE
    UARFCN
                                                             UARFCN
    -- This IE indicates the frequency of Secondary frequency to add
                                                            TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD,
    timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
    -- This IE indicates the Time Slot configuration of Secondary frequency to add
   iE-Extensions
                                            ProtocolExtensionContainer { { Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs } }
   OPTIONAL,
    . . .
Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-ModifyItem-LCR-MulFreq-
Cell-ReconfRastTDD
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE {
   uARFCN
                                                             UARFCN,
    -- This IE indicates the frequency of Secondary frequency to modify
    timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
                                                            TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,
    -- This IE indicates the Time Slot reconfiguration of Secondary frequency
```

```
ProtocolExtensionContainer { { Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE {
   UARFCN
                                                    UARFCN,
   -- This IE indicates the frequency of Secondary Frequency to delete
   iE-Extensions
                                      ProtocolExtensionContainer { { Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs } }
   OPTIONAL.
   . . .
3
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
۱
   - -
  CELL RECONFIGURATION RESPONSE
- -
- -
  CellReconfigurationResponse ::= SEQUENCE {
                                                    {{CellReconfigurationResponse-IEs}},
   protocolIEs
                           ProtocolIE-Container
                           ProtocolExtensionContainer
                                                    {{CellReconfigurationResponse-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
   . . .
CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                  CRITICALITY ignore
                                                           TYPE CriticalityDiagnostics
                                                                                                     PRESENCE optional },
   . . .
}
CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
  _ _
- -
  CELL RECONFIGURATION FAILURE
- -
- -
  CellReconfigurationFailure ::= SEQUENCE {
                                                 {{CellReconfigurationFailure-IEs}},
   protocolIEs
                       ProtocolIE-Container
                        ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
   . . .
}
```

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CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }| ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - -CELL DELETION REQUEST - -- -CellDeletionRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellDeletionRequest-IEs}}, {{CellDeletionReguest-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= { { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory }, . . . } CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- CELL DELETION RESPONSE - -CellDeletionResponse ::= SEQUENCE { ProtocolIE-Container {{CellDeletionResponse-IEs}}, protocolIEs ProtocolExtensionContainer {{CellDeletionResponse-Extensions}} protocolExtensions OPTIONAL, . . . } CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= { { ID id-CriticalityDiagnostics CRITICALITY iqnore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } - -

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-- RESOURCE STATUS INDICATION ResourceStatusIndication ::= SEQUENCE { protocolIEs ProtocolIE-Container {{ResourceStatusIndication-IEs}}, ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}} protocolExtensions OPTIONAL. . . . } ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= { ID id-IndicationType-ResourceStatusInd CRITICALITY ignore TYPE IndicationType-ResourceStatusInd PRESENCE mandatory } | { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional }, . . . } ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= { } IndicationType-ResourceStatusInd ::= CHOICE { no-Failure No-Failure-ResourceStatusInd, serviceImpacting ServiceImpacting-ResourceStatusInd, . . . No-Failure-ResourceStatusInd ::= SEQUENCE { local-Cell-InformationList Local-Cell-InformationList-ResourceStatusInd, local-Cell-Group-InformationList Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL, ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } } OPTIONAL, iE-Extensions . . . No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-ResourceStatusInd PRESENCE optional }, . . . Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }} Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem-ResourceStatusInd PRESENCE mandatory } Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE { local-CellID Local-Cell-ID, addorDeleteIndicator AddorDeleteIndicator, dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL, -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' ul-capacityCredit UL-CapacityCredit OPTIONAL, commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,

-- This IE shall be present if AddorDeleteIndicator IE is set to 'add' dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL. -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' maximumDL-PowerCapability MaximumDL-PowerCapability OPTIONAL. -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' minSpreadingFactor MinSpreadingFactor OPTIONAL, -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL. -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' local-Cell-Group-ID Local-Cell-ID OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } OPTIONAL, . . . Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional }| -- This IE shall be present if AddorDeleteIndicator IE is set to 'add' and the Local Cell is related to a TDD cell id-Power-Local-Cell-Group-ID TD CRITICALITY ignore EXTENSION Local-Cell-ID PRESENCE optional } id-HSDPA-Capability EXTENSION HSDPA-Capability PRESENCE optional } ID CRITICALITY ignore id-E-DCH-Capability EXTENSION E-DCH-Capability PRESENCE optional } ΤD CRITICALITY ignore id-E-DCH-TTI2ms-Capability { ID CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability PRESENCE conditional } -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. id-E-DCH-SF-Capability EXTENSION E-DCH-SF-Capability PRESENCE conditional }| { ID CRITICALITY ignore -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. id-E-DCH-HARQ-Combining-Capability { ID CRITICALITY ignore EXTENSION E-DCH-HARQ-Combining-Capability PRESENCE conditional } -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'. ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional } id-F-DPCH-Capability CRITICALITY ignore EXTENSION F-DPCH-Capability PRESENCE optional } ID id-E-DCH-TDD-CapacityConsumptionLaw EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }| ΤD CRITICALITY ignore ΤD id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability PRESENCE optional }| { ID id-Max-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle PRESENCE conditional }| -- The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-DRX Capable'. ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Capability PRESENCE optional } ID id-MIMO-Capability CRITICALITY ignore EXTENSION MIMO-Capability PRESENCE optional id-SixtyfourOAM-DL-Capability ΙD CRITICALITY ignore EXTENSION SixtyfourOAM-DL-Capability PRESENCE optional ID id-MBMS-Capability CRITICALITY ignore EXTENSION MBMS-Capability PRESENCE optional id-Enhanced-FACH-Capability EXTENSION Enhanced-FACH-Capability PRESENCE optional } ID CRITICALITY ignore PRESENCE conditional ID id-Enhanced-PCH-Capability CRITICALITY ignore EXTENSION Enhanced-PCH-Capability }| -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'. ID id-SixteenOAM-UL-Capability CRITICALITY ignore EXTENSION SixteenOAM-UL-Capability PRESENCE optional PRESENCE optional id-HSDSCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability ТD id-MBSFN-Only-Mode-Capability ID CRITICALITY ignore EXTENSION MBSFN-Only-Mode-Capability PRESENCE optional id-F-DPCH-SlotFormatCapability EXTENSION F-DPCH-SlotFormatCapability ID CRITICALITY ignore PRESENCE optional } PRESENCE optional } ТD id-E-DPCCH-Power-Boosting-Capability CRITICALITY ignore EXTENSION E-DPCCH-Power-Boosting-Capability ID id-MIMO-Power-Offset-For-S-CPICH-Capability CRITICALITY ignore EXTENSION MIMO-PowerOffsetForS-CPICHCapability PRESENCE optional } ID id-TxDiversityOnDLControlChannelsByMIMOUECapability CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability PRESENCE optional }| { ID id-PrecodingWeightSetRestriction CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction PRESENCE optional },

```
. . .
Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-ResourceStatusInd }}
Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd
    PRESENCE mandatory }
}
Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
    local-Cell-Group-ID
                                                Local-Cell-ID,
    dl-or-global-capacityCredit
                                                DL-or-Global-CapacityCredit,
    ul-capacityCredit
                                                UL-CapacityCredit
                                                                        OPTIONAL,
    commonChannelsCapacityConsumptionLaw
                                                CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
                                                DedicatedChannelsCapacityConsumptionLaw,
                                                ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs }
    iE-Extensions
    OPTIONAL,
    . . .
Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-E-DCH-CapacityConsumptionLaw
                                                CRITICALITY ignore
                                                                         EXTENSION E-DCHCapacityConsumptionLaw
                                                                                                                        PRESENCE optional } |
     ID id-E-DCH-TDD-CapacityConsumptionLaw
                                                                         EXTENSION E-DCH-TDD-CapacityConsumptionLaw
                                                CRITICALITY ignore
                                                                                                                        PRESENCE optional },
    . . .
3
Power-Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Cell-Group-InformationItemIE-ResourceStatusInd } }
Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-
                        PRESENCE mandatory }
ResourceStatusInd
Power-Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
    power-Local-Cell-Group-ID
                                                Local-Cell-ID,
    maximumDL-PowerCapability
                                                MaximumDL-PowerCapability,
    iE-Extensions
                                                ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }
    OPTIONAL,
    . . .
Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList
                                            Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
    local-Cell-Group-InformationList
                                            Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
    cCP-InformationList
                                            CCP-InformationList-ResourceStatusInd
                                                                                            OPTIONAL,
    cell-InformationList
                                            Cell-InformationList-ResourceStatusInd
                                                                                            OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs } }
                                                                                                                                 OPTIONAL,
```

}										
ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList2- ResourceStatusInd PRESENCE optional },										
}										
Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell- InformationItemIE2-ResourceStatusInd }}										
Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem2-ResourceStatusInd PRESENCE mandatory } }										
Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE { Local-Cell-ID Local-Cell-ID,										
dl-or-global-capacityCreditDL-or-Global-CapacityCreditOPTIONAL,ul-capacityCreditUL-CapacityCreditOPTIONAL,commonChannelsCapacityConsumptionLawCommonChannelsCapacityConsumptionLawOPTIONAL,dedicatedChannelsCapacityConsumptionLawDedicatedChannelsCapacityConsumptionLawOPTIONAL,maximum-DL-PowerCapabilityMaximumDL-PowerCapabilityOPTIONAL,minSpreadingFactorMinSpreadingFactorOPTIONAL,minimumDL-PowerCapabilityMinimumDL-PowerCapabilityOPTIONAL,minimumDL-powerCapabilityMinimumDL-PowerCapabilityOPTIONAL,minimumDL-powerCapabilityMinimumDL-PowerCapabilityOPTIONAL,minimumDL-powerCapabilityMinimumDL-PowerCapabilityOPTIONAL,iE-ExtensionsProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,										
}										
Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {     {										
The IE shall be present if <i>E-DCH Capability</i> IE is set to 'E-DCH Capable'. { ID id-E-DCH-SF-Capability CRITICALITY ignore EXTENSION E-DCH-SF-Capability PRESENCE conditional }										
The IE shall be present if <i>E-DCH Capability</i> IE is set to 'E-DCH Capable'. { ID id-E-DCH-HARQ-Combining-Capability CRITICALITY ignore EXTENSION E-DCH-HARQ-Combining-Capability PRESENCE conditional }										
The IE shall be present if <i>E-DCH Capability</i> IE is set to 'E-DCH Capable'. { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional }  { ID id-F-DPCH-Capability CRITICALITY ignore EXTENSION F-DPCH-Capability PRESENCE optional }  { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }  { ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }  ContinuousPacketConnectivityDTX-DRX-Capability PRESENCE optional }										
{ ID id-Max-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle PRESENCE conditional }  The IE shall be present if Continuous Packet Connectivity DTX-DRX Capability IE is present and set to 'Continuous Packet Connectivity DTX-										
DRX Capable'. { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY iqnore EXTENSION										
ContinuousPacketConnectivityHS-SCCH-less-Capability PRESENCE optional }  { ID id-MIMO-Capability PRESENCE Optional }  }										

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} {	ID	id-SixtyfourQAM-DL-Capability	CRITICALITY ignore	EXTENSION SixtyfourQAM-DL-Capability	PRESENCE optional					
	ID	id-MBMS-Capability	CRITICALITY ignore	EXTENSION MBMS-Capability	PRESENCE optional					
}  { }	ID	id-Enhanced-FACH-Capability	CRITICALITY ignore	EXTENSION Enhanced-FACH-Capability	PRESENCE optional					
{	ID	id-Enhanced-PCH-Capability	CRITICALITY ignore	EXTENSION Enhanced-PCH-Capability	PRESENCE					
conditional }  The IE shall be present if <i>Enhanced FACH Capability</i> IE is set to 'Enhanced FACH Capable'.										
{	ID	id-SixteenQAM-UL-Capability	CRITICALITY ignore	EXTENSION SixteenQAM-UL-Capability	PRESENCE optional					
	ID	id-HSDSCH-MACdPDU-SizeCapability	CRITICALITY ignore	EXTENSION HSDSCH-MACdPDU-SizeCapability	PRESENCE optional					
}  {	ID	id-MBSFN-Only-Mode-Capability	CRITICALITY ignore	EXTENSION MBSFN-Only-Mode-Capability	PRESENCE optional					
	ID	id-F-DPCH-SlotFormatCapability	CRITICALITY ignore	EXTENSION F-DPCH-SlotFormatCapability	PRESENCE optional					
	ID	id-E-DPCCH-Power-Boosting-Capability	CRITICALITY ignore	EXTENSION E-DPCCH-Power-Boosting-Capability	PRESENCE optional					
}  { }	ID	id-MIMO-Power-Offset-For-S-CPICH-Capability	CRITICALITY ignore	EXTENSION MIMO-PowerOffsetForS-CPICHCapability	PRESENCE optional					
<pre>{ ID id-TxDiversityOnDLControlChannelsByMIMOUECapability CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability PRESENCE optional }  { ID id-PrecodingWeightSetRestriction CRITICALITY ignore EXTENSION PrecodingWeightSetRestriction PRESENCE optional }, } Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE2-ResourceStatusInd }} Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {     { ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd     PRESENCE mandatory } }</pre>										
lc dl ul cc de iF OF	ocal-Ce -or-gi -capac ommonCl edicate 2-Exter 2TIONAI	lobal-capacityCredit DL-or-C cityCredit UL-Capa nannelsCapacityConsumptionLaw Common edChannelsCapacityConsumptionLaw Dedicat nsions ProtocolExt	Cell-ID, Global-CapacityCredit acityCredit ChannelsCapacityConsur cedChannelsCapacityCon	-	xtIEs} }					
}	•									
Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional }										
{	ID id	-E-DCH-TDD-CapacityConsumptionLaw CRITICA	LITY ignore EXTR	INSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE o	<pre>ptional },</pre>					
}	•									
CCP-In	format	tionList-ResourceStatusInd ::= SEQUENCE (SIZ	(1. maxCCPinNodeB)	OF ProtocollE-Single-Container {{ CCP-InformationIt	emIE-					

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd PRESENCE mandatory } CCP-InformationItem-ResourceStatusInd ::= SEQUENCE { CommunicationControlPortID, communicationControlPortID resourceOperationalState ResourceOperationalState, availabilityStatus AvailabilityStatus, ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs } } iE-Extensions OPTIONAL, . . . CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= . . . Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-ResourceStatusInd }} Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd PRESENCE mandatory } Cell-InformationItem-ResourceStatusInd ::= SEOUENCE { c-ID C-ID. resourceOperationalState ResourceOperationalState OPTIONAL, availabilityStatus AvailabilityStatus OPTIONAL, primary-SCH-Information OPTIONAL, -- FDD only P-SCH-Information-ResourceStatusInd secondary-SCH-Information OPTIONAL, -- FDD only S-SCH-Information-ResourceStatusInd OPTIONAL, -- FDD only primary-CPICH-Information P-CPICH-Information-ResourceStatusInd secondary-CPICH-Information S-CPICH-InformationList-ResourceStatusInd OPTIONAL, -- FDD only primary-CCPCH-Information P-CCPCH-Information-ResourceStatusInd OPTIONAL, bCH-Information BCH-Information-ResourceStatusInd OPTIONAL, secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd OPTIONAL, pCH-Information PCH-Information-ResourceStatusInd OPTIONAL, pICH-Information PICH-Information-ResourceStatusInd OPTIONAL, fACH-InformationList FACH-InformationList-ResourceStatusInd OPTIONAL, pRACH-InformationList PRACH-InformationList-ResourceStatusInd OPTIONAL, rACH-InformationList RACH-InformationList-ResourceStatusInd OPTIONAL, OPTIONAL, -- FDD only AICH-InformationList-ResourceStatusInd aICH-InformationList notUsed-1-pCPCH-InformationList NULL OPTIONAL, notUsed-2-cPCH-InformationList NULL OPTIONAL, notUsed-3-aP-AICH-InformationList NULT. OPTIONAL, notUsed-4-cDCA-ICH-InformationList NULT.T. OPTIONAL. sCH-Information SCH-Information-ResourceStatusInd OPTIONAL, -- Applicable to 3.84Mcps TDD only iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL, . . .

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-FPACH-LCR-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-ResourceStatusInd PRESENCE optional }| -- Applicable to 1.28Mcps TDD only

{ ID id-DwPCH-LCR-Information-ResourceStatusInd CRITICALITY ignore EXTENSION DwPCH-LCR-Information-ResourceStatusInd PRESENCE optional } -- Applicable to 1.28Mcps TDD only { ID id-HSDSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-ResourceStatusInd PRESENCE optional } -- For 1.28Mcps TDD, this HS-DSCH Resource Information is for the first Frequency repetition, HS-DSCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd. { ID id-MICH-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional }| { ID id-S-CCPCH-InformationListExt-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-ResourceStatusInd PRESENCE optional } -- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message. { ID id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd CRITICALITY iqnore EXTENSION S-CCPCH-LCR-InformationListExt-ResourceStatusInd PRESENCE optional }| -- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message. { ID id-E-DCH-Resources-Information-ResourceStatusInd CRITICALITY ignore EXTENSION E-DCH-Resources-Information-ResourceStatusInd PRESENCE optional } -- For 1.28Mcps TDD, this E-DCH Resource Information is for the first Frequency repetition, E-DCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreg-E-DCH-Resources-InformationList-ResourceStatusInd. ID id-PLCCH-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION PLCCH-InformationList-ResourceStatusInd PRESENCE optional }| { ID id-P-CCPCH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }| { ID id-S-CCPCH-768-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-768-InformationList-ResourceStatusInd PRESENCE optional }| { ID id-PICH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional } { ID id-PRACH-768-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION PRACH-768-InformationList-ResourceStatusInd PRESENCE optional }| { ID id-SCH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }| { ID id-MICH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional } { ID id-E-RUCCH-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION E-RUCCH-InformationList-ResourceStatusInd PRESENCE optional } { ID id-E-RUCCH-768-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION E-RUCCH-768-InformationList-ResourceStatusInd PRESENCE optional }| { ID id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd CRITICALITY ignore EXTENSION Cell-Frequency-List-Information-LCR-MulFreg-ResourceStatusInd PRESENCE optional } -- Applicable to 1.28Mcps TDD when using multiple frequencies { ID id-UPPCH-LCR-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION UPPCH-LCR-InformationList-ResourceStatusInd PRESENCE optional }| -- Applicable to 1.28Mcps TDD only { ID id-multipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION MultipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd PRESENCE optional }| -- Applicable to 1.28Mcps TDD when using multiple frequencies, This HS-DSCH Resource Information is for the 2nd and beyond frequencies. { ID id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION MultipleFreg-E-DCH-Resources-InformationList-ResourceStatusInd PRESENCE optional }, -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-DCH Resource Information is for the 2nd and beyond frequencies. . . . P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {

{ ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }

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S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }} S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }} P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd } } S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }} P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }} BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd } } S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }} PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }} PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {

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```
{ ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-
ResourceStatusInd } }
PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-
ResourceStatusInd } }
RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-
ResourceStatusInd } }
AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}
SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-
ResourceStatusInd } }
FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                    PRESENCE mandatory }
DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}
DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-DwPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
    resourceOperationalState
                                       ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
   iE-Extensions
                                       ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }}
                                                                                                                                   OPTIONAL,
    . . .
HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-UARFCNforNt
                        CRITICALITY ignore
                                                   EXTENSION UARFCN
                                                                          PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
```

```
}
S-CCPCH-InformationListExt-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
S-CCPCH-LCR-InformationListExt-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-
InformationItemIE-ResourceStatusInd }}
E-DCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
    resourceOperationalState
                                       ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
                                       ProtocolExtensionContainer {{ E-DCH-Resources-Information-ResourceStatusInd-ExtIEs }}
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-UARFCNforNt
                        CRITICALITY ignore
                                                   EXTENSION UARFCN
                                                                            PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
    . . .
}
PLCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-
ResourceStatusInd }}
PLCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PLCCH-Information-ResourceStatusInd CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
S-CCPCH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {{ S-CCPCH-768-
InformationItemIE-ResourceStatusInd }}
S-CCPCH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-768-Information-ResourceStatusInd CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                                  PRESENCE
mandatory }
PRACH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-
ResourceStatusInd } }
PRACH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                      PRESENCE mandatory }
}
E-RUCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-InformationItemIE-
ResourceStatusInd }}
E-RUCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-E-RUCCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
}
E-RUCCH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-768-
InformationItemIE-ResourceStatusInd }}
E-RUCCH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
```

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```
{ ID id-E-RUCCH-768-Information
                                        CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768
                                                                                                                        PRESENCE mandatory }
}
Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-
Frequency-List-InformationIE-LCR-MulFreq-ResourceStatusInd }}
Cell-Frequency-List-InformationIE-LCR-MulFreq-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd CRITICALITY ignore
                                                                                                                     TYPE Cell-Frequency-List-
InformationItem-LCR-MulFreq-ResourceStatusInd
                                                    PRESENCE mandatory }
Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE {
    UARFCN
                                        UARFCN.
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
    cause
                                        Cause
                                                            OPTIONAL.
                                        ProtocolExtensionContainer {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs }}
    iE-Extensions
       OPTIONAL,
    . . .
Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UPPCH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UPPCH-LCR-InformationIE-
ResourceStatusInd } }
UPPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-UPPCH-LCR-InformationItem-ResourceStatusInd
                                                            CRITICALITY ignore TYPE UPPCH-LCR-InformationItem-ResourceStatusInd
                                                                                                                                       PRESENCE
mandatory }
UPPCH-LCR-InformationItem-ResourceStatusInd ::= SEQUENCE {
   UARFCN
                                        UARFCN
                                                            OPTIONAL.
    uPPCHPositionLCR
                                        UPPCHPositionLCR,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs }}
                                                                                                                                OPTIONAL,
    . . .
UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MultipleFreg-HS-DSCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocollE-Single-
Container{{ MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd }}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-HSDSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore TYPE HS-DSCH-Resources-Information-ResourceStatusInd
                                                                                                                                         PRESENCE
mandatory }
```

Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}

```
Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem2-
ResourceStatusInd
                      PRESENCE mandatory }
}
Power-Local-Cell-Group-InformationItem2-ResourceStatusInd::= SEQUENCE
   power-Local-Cell-Group-ID
                                      Local-Cell-ID,
   maximumDL-PowerCapability
                                      MaximumDL-PowerCapability,
                                      ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } }
   iE-Extensions
   OPTIONAL.
    . . .
3
Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-
Container{{ MultipleFreq-E-DCH-Resources-InformationItem-ResourceStatusInd }}
    --Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreq-E-DCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-E-DCH-Resources-Information-ResourceStatusInd CRITICALITY ignore TYPE E-DCH-Resources-Information-ResourceStatusInd PRESENCE
mandatory }
}
  *******
-- SYSTEM INFORMATION UPDATE REQUEST
- -
  **********
SystemInformationUpdateRequest ::= SEQUENCE {
                                                      {{SystemInformationUpdateRequest-IEs}},
   protocolIEs
                          ProtocolIE-Container
                                                    {{SystemInformationUpdateRequest-Extensions}}
                          ProtocolExtensionContainer
   protocolExtensions
                                                                                                                 OPTIONAL,
   . . .
}
SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-C-ID
                                                             CRITICALITY reject TYPE C-ID
                                                                                                                       PRESENCE mandatory } |
     ID id-BCCH-ModificationTime
                                                             CRITICALITY reject TYPE BCCH-ModificationTime
                                                                                                                      PRESENCE optional }
     ID id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
                                                             CRITICALITY reject TYPE MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
    PRESENCE mandatory }.
    . . .
SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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MIB-SB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst

```
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
    iB-Type
                                        IB-Type,
    iB-OC-ID
                                        IB-OC-ID.
    deletionIndicator
                                        DeletionIndicator-SystemInfoUpdate,
                                        ProtocolExtensionContainer { { MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
DeletionIndicator-SystemInfoUpdate ::= CHOICE {
    no-Deletion
                                        No-Deletion-SystemInfoUpdate,
    yes-Deletion
                                        NULL
}
No-Deletion-SystemInfoUpdate ::= SEQUENCE {
    sIB-Originator
                                            SIB-Originator
                                                                         OPTIONAL,
    -- This IE shall be present if the IB-Type IE is set to "SIB"
    iB-SG-REP
                                            IB-SG-REP
                                                                         OPTIONAL,
    segmentInformationList
                                            SegmentInformationList-SystemInfoUpdate,
    iE-Extensions
                                            ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs } }
                                                                                                                            OPTIONAL.
    . . .
No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SeqmentInformationList-SystemInfoUpdate ::= ProtocollE-Single-Container {{ SeqmentInformationListIEs-SystemInfoUpdate }}
SeqmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-SeqmentInformationListIE-SystemInfoUpdate CRITICALITY reject TYPE SeqmentInformationListIE-SystemInfoUpdate
                                                                                                                                  PRESENCE mandatory }
SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate
SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS
                                            IB-SG-POS
                                                                 OPTIONAL.
    segment-Type
                                            Segment-Type
                                                                 OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
    iB-SG-DATA
                                            IB-SG-DATA
                                                                 OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
                                            ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs } OPTIONAL,
    iE-Extensions
    . . .
SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

-- SYSTEM INFORMATION UPDATE RESPONSE SystemInformationUpdateResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{SystemInformationUpdateResponse-IEs}}, protocolExtensions ProtocolExtensionContainer {{SystemInformationUpdateResponse-Extensions}} OPTIONAL, . . . } SystemInformationUpdateResponse-IEs NBAP-PROTOCOL-IES ::= { { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } SystemInformationUpdateResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\*\*\*\*\*\* - --- SYSTEM INFORMATION UPDATE FAILURE SystemInformationUpdateFailure ::= SEQUENCE {{SystemInformationUpdateFailure-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{SystemInformationUpdateFailure-Extensions}} OPTIONAL, . . . } SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }| { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } SystemInformationUpdateFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= { - --- RADIO LINK SETUP REQUEST FDD - -RadioLinkSetupRequestFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL, . . .

}							
RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL- { ID id-CRNC-CommunicationContextID	-IES ::= {	CRITICALITY	reject	TYPE CRNC-	CommunicationContextID		PRESENCE mandatory
<pre>}  { ID id-UL-DPCH-Information-RL-SetupRqs</pre>	stFDD	CRITICALITY	reject	TYPE UL-DE	PCH-Information-RL-SetupRqst	FDD	PRESENCE mandatory
<pre>}  { ID id-DL-DPCH-Information-RL-SetupRqs { ID id-DCH-FDD-Information } </pre>	stFDD				PCH-Information-RL-SetupRqst DD-Information	FDD	PRESENCE optional }  PRESENCE mandatory
<pre>{ ID id-RL-InformationList-RL-SetupRqst } </pre>	tFDD	CRITICALITY	notify	TYPE RL-Ir	formationList-RL-SetupRqstF	DD	PRESENCE mandatory
<pre>// { ID id-Transmission-Gap-Pattern-Sequer</pre>	nce-Information	CRITICALITY	reject	TYPE Trans	mission-Gap-Pattern-Sequenc	ce-Informa	ation
{ ID id-Active-Pattern-Sequence-Information	ation	CRITICALITY	reject	TYPE Activ	e-Pattern-Sequence-Informat	ion	<pre>PRESENCE optional },</pre>
}							
<pre>RadioLinkSetupRequestFDD-Extensions NBAP-PH { ID id-DL-PowerBalancing-Information</pre>	CRITICA CRITICA CRITICA Information IE is CRITICA Information IE is CRITICA CRITICA nformation IE is CRITICA tFDD CRITICA nt-Allowed Operation X-DRX-Information	LITY ignore LITY reject LITY reject present LITY reject present LITY reject LITY reject LITY reject CRITICALITY CRITICALITY CRITICALITY CRITICALITY	EXTENSI EXTENSI EXTENSI EXTENSI EXTENSI ignore reject	ON HSDSCH-F ON HSDSCH-F ON RL-ID ON E-DPCH-J ON E-DCH-FI ON Serving- ON F-DPCH-J EXTENSION EXTENSION EXTENSION reject	Information-RL-SetupRqstFDD D-Information E-DCH-RL-ID Information-RL-SetupRqstFDD Initial-DL-DPCH-TimingAdjus DCH-Indicator-For-E-DCH-HSD	PRESENCI PRESENCI PRESENCI PRESENCI PRESENCI PRESENCI Stment-All DPA-Operat PRESENCI	tion E optional }  .vityDTX-DRX-
Information PRESENCE optional },							
<pre>} UL-DPCH-Information-RL-SetupRqstFDD ::= SE(     ul-ScramblingCode     minUL-ChannelisationCodeLength     maxNrOfUL-DPDCHs     This IE shall be present if Min UL (     ul-PunctureLimit     tFCS     ul-DPCCH-SlotFormat     ul-SIR-Target     diversityMode     not-Used-sSDT-CellID-Length     not-Used-s-FieldLength</pre>	UL-ScramblingCo MinUL-Channelis MaxNrOfUL-DPDCH	ationCodeLeng s OPT de length IE ormat, OPT	IONAL,	to 4			

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```
ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DPC-Mode
                                                     CRITICALITY reject EXTENSION DPC-Mode
                                                                                                                               PRESENCE optional }|
    { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
                                                                                                                               PRESENCE optional }.
    . . .
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    t FCS
                                            TFCS,
                                            DL-DPCH-SlotFormat,
    dl-DPCH-SlotFormat
    tFCI-SignallingMode
                                            TFCI-SignallingMode,
    tFCI-Presence
                                            TFCI-Presence
                                                                             OPTIONAL.
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
    multiplexingPosition
                                            MultiplexingPosition,
    not-Used-pDSCH-RL-ID
                                            NULL
                                                                             OPTIONAL,
    not-Used-pDSCH-CodeMapping
                                            NULL
                                                                             OPTIONAL,
    powerOffsetInformation
                                            PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                            FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                            LimitedPowerIncrease,
    innerLoopDLPCStatus
                                            InnerLoopDLPCStatus,
                                            ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
   pO2-ForTPC-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-Single-Container{{ RL-InformationItemIE-RL-SetupRqstFDD }}
RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD
                                                        CRITICALITY notify
                                                                                     TYPE RL-InformationItem-RL-SetupRqstFDD
                                                                                                                                 PRESENCE mandatory }
}
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    c-ID
                                        C-ID,
    firstRLS-indicator
                                        FirstRLS-Indicator,
```

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frameOffset
                                        FrameOffset,
    chipOffset.
                                        ChipOffset.
    propagationDelay
                                        PropagationDelay
                                                                         OPTIONAL.
    diversityControlField
                                        DiversityControlField
                                                                         OPTIONAL,
    -- This IE shall be present if the RL is not the first one in the RL Information IE
    dl-CodeInformation
                                        FDD-DL-CodeInformation.
    initialDL-transmissionPower
                                        DL-Power,
    maximumDL-power
                                        DL-Power,
    minimumDL-power
                                        DL-Power,
    not-Used-sSDT-Cell-Identity
                                                                         OPTIONAL,
                                        NULL
    transmitDiversityIndicator
                                        TransmitDiversityIndicator
                                                                         OPTIONAL,
    -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to 'none'
                                        ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL.
    . . .
RL-InformationItem-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-RL-Specific-DCH-Info
                                                         CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                     PRESENCE optional }
      ID id-DelayedActivation
                                                         CRITICALITY reject EXTENSION DelayedActivation
                                                                                                                     PRESENCE optional }
     ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation PRESENCE
optional }|
      ID id-Secondary-CPICH-Information
                                                         CRITICALITY ignore EXTENSION CommonPhysicalChannelID
                                                                                                                     PRESENCE optional }
      ID id-E-DCH-RL-Indication
                                                         CRITICALITY reject EXTENSION E-DCH-RL-Indication
                                                                                                                     PRESENCE optional
      ID id-RL-Specific-E-DCH-Info
                                                         CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
                                                                                                                     PRESENCE optional
                                                         CRITICALITY ignore EXTENSION SynchronisationIndicator
                                                                                                                     PRESENCE optional
      ID id-SynchronisationIndicator
      ID id-ExtendedPropagationDelay
                                                         CRITICALITY ignore EXTENSION ExtendedPropagationDelay
                                                                                                                     PRESENCE optional }|
     ID id-F-DPCH-SlotFormat
                                                         CRITICALITY reject EXTENSION F-DPCH-SlotFormat
                                                                                                                     PRESENCE optional },
    . . .
E-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE
    maxSet-E-DPDCHs
                                                Max-Set-E-DPDCHs,
    ul-PunctureLimit
                                                PunctureLimit,
    e-TFCS-Information
                                                E-TFCS-Information,
    e-TTT
                                                E-TTI,
    e-DPCCH-PO
                                                E-DPCCH-PO,
    e-RGCH-2-IndexStepThreshold
                                                E-RGCH-2-IndexStepThreshold,
    e-RGCH-3-IndexStepThreshold
                                                E-RGCH-3-IndexStepThreshold,
    hARO-Info-for-E-DCH
                                                HARO-Info-for-E-DCH,
    hSDSCH-Configured-Indicator
                                                HSDSCH-Configured-Indicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRgstFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
E-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
F-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    powerOffsetInformation
                                        PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                        FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                        LimitedPowerIncrease,
    innerLoopDLPCStatus
                                        InnerLoopDLPCStatus,
    iE-Extensions
                                        ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
```

F-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE { pO2-ForTPC-Bits PowerOffset, --This IE shall be ignored by Node B ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs } } OPTIONAL, iE-Extensions . . . PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { \_ \_ -- RADIO LINK SETUP REQUEST TDD - -RadioLinkSetupReguestTDD ::= SEOUENCE { {{RadioLinkSetupRequestTDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}} OPTIONAL, . . . } RadioLinkSetupRequestTDD-IES NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID CRITICALITY reject TYPE CRNC-CommunicationContextID ID PRESENCE mandatory }| ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional TD id-DCH-TDD-Information CRITICALITY reject TYPE DCH-TDD-Information ID PRESENCE optional id-DSCH-TDD-Information PRESENCE optional TD CRITICALITY reject TYPE DSCH-TDD-Information ID id-USCH-Information CRITICALITY reject TYPE USCH-Information PRESENCE optional } id-RL-Information-RL-SetupRgstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRgstTDD PRESENCE mandatory ΤD }, . . . RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-TDD-Information PRESENCE optional } | CRITICALITY reject EXTENSION HSDSCH-TDD-Information { ID id-HSDSCH-RNTI CRITICALITY reject PRESENCE conditional } EXTENSION HSDSCH-RNTI -- The IE shall be present if HS-DSCH Information IE is present { ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE conditional } | -- The IE shall be present if HS-DSCH Information IE is present ID id-PDSCH-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } PRESENCE optional } ID id-E-DCH-Information CRITICALITY reject EXTENSION E-DCH-Information ID id-E-DCH-Serving-RL-ID PRESENCE optional CRITICALITY reject EXTENSION RL-ID PRESENCE optional } ID id-E-DCH-768-Information CRITICALITY reject EXTENSION E-DCH-768-Information PRESENCE optional } ID id-E-DCH-LCR-Information CRITICALITY reject EXTENSION E-DCH-LCR-Information ID id-PowerControlGAP PRESENCE optional } CRITICALITY ignore EXTENSION ControlGAP

```
-- Applicable to 1.28Mcps TDD only
    { ID id-UE-Selected-MBMS-Service-Information
                                                            CRITICALITY ignore
                                                                                     EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional }.
    . . .
UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-Single-Container{{ UL-CCTrCH-InformationItemIE-RL-SetupRgstTDD }}
UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                            CRITICALITY notify
                                                                                     TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                                                                                       PRESENCE
mandatory }
UL-CCTrCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
    tFCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    punctureLimit
                                            PunctureLimit,
    uL-DPCH-Information
                                            UL-DPCH-Information-RL-SetupRgstTDD
                                                                                     OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                        CRITICALITY notify EXTENSION UL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                                                                                                PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UL-SIRTarget
                                                        CRITICALITY reject EXTENSION UL-SIR
                                                                                                                                 PRESENCE optional }|
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                 PRESENCE optional }
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-UL-DPCH-768-Information-RL-SetupRqstTDD
                                                        CRITICALITY notify EXTENSION UL-DPCH-768-Information-RL-SetupRqstTDD PRESENCE optional },
    -- Applicable to 7.68Mcps TDD only
    . . .
UL-DPCH-Information-RL-SetupRqstTDD ::= Protocolle-Single-Container{{ UL-DPCH-InformationIE-RL-SetupRqstTDD }}
UL-DPCH-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationList-RL-SetupRqstTDD
                                                        CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRgstTDD
                                                                                                                              PRESENCE mandatory
}
UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod.
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset.
    uL-TimeslotLCR-Information
                                            UL-TimeslotLCR-Information,
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
UL-DPCH-768-Information-RL-SetupRgstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot768-Information
                                            UL-Timeslot768-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs } }
                                                                                                                                       OPTIONAL.
    . . .
UL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
DL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-
SetupRqstTDD } }
DL-CCTrCH-InformationItemIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
                                                                                                                                 PRESENCE mandatory }
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
    tFCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding,
    punctureLimit
                                            PunctureLimit,
    tdd-TPC-DownlinkStepSize
                                            TDD-TPC-DownlinkStepSize,
                                            CCTrCH-TPCList-RL-SetupRqstTDD
    cCTrCH-TPCList
                                                                                     OPTIONAL,
    dL-DPCH-Information
                                            DL-DPCH-Information-RL-SetupRqstTDD
                                                                                     OPTIONAL,
                                                                                                 -- Applicable to 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                         CRITICALITY notify
                                                                                 EXTENSION DL-DPCH-LCR-Information-RL-SetupRgstTDD
                                                                                                                                       PRESENCE
optional } -- Applicable to 1.28Mcps TDD only
      ID id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD
                                                         CRITICALITY ignore
                                                                                 EXTENSION DL-Power
                                                                                                                        PRESENCE optional }
      ID id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD
                                                                                                                        PRESENCE optional
                                                        CRITICALITY ignore
                                                                                 EXTENSION DL-Power
      ID id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD
                                                        CRITICALITY ignore
                                                                                 EXTENSION DL-Power
                                                                                                                        PRESENCE optional }
     ID id-DL-DPCH-768-Information-RL-SetupRqstTDD
                                                        CRITICALITY notify
                                                                                 EXTENSION DL-DPCH-768-Information-RL-SetupRqstTDD
                                                                                                                                       PRESENCE
optional }, -- Applicable to 7.68Mcps TDD only
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. . .
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRgstTDD
                               ::= SEQUENCE {
    cCTrCH-ID
                                             CCTrCH-ID,
                                             ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-Information-RL-SetupRgstTDD ::= Protocolle-Single-Container{{ DL-DPCH-InformationIE-RL-SetupRgstTDD }}
DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationList-RL-SetupRgstTDD
                                                        CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRgstTDD
                                                                                                                               PRESENCE mandatory
3
DL-DPCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    tdd-DPCHOffset
                                             TDD-DPCHOffset,
    dL-Timeslot-Information
                                             DL-Timeslot-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    tdd-DPCHOffset
                                             TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                             DL-TimeslotLCR-Information,
    tstdIndicator
                                             TSTD-Indicator,
                                             ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-768-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    tdd-DPCHOffset
                                             TDD-DPCHOffset,
    dL-Timeslot768-Information
                                             DL-Timeslot768-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
```

. . . DL-DPCH-768-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 3 RL-Information-RL-SetupRqstTDD ::= SEQUENCE { rL-TD RL-ID, c-ID C-ID, frameOffset FrameOffset, specialBurstScheduling SpecialBurstScheduling, initialDL-transmissionPower DL-Power, maximumDL-power DL-Power, minimumDL-power DL-Power, dL-TimeSlotISCPInfo DL-TimeslotISCPInfo OPTIONAL, -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only ProtocolExtensionContainer { { RL-Information-RL-SetupRgstTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD CRITICALITY reject EXTENSION DL-TimeslotISCPInfoLCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD only ID id-RL-Specific-DCH-Info CRITICALITY iqnore EXTENSION RL-Specific-DCH-Info PRESENCE optional ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional }, -- Mandatory for 1.28Mcps TDD when using multiple frequencies . . . - --- RADIO LINK SETUP RESPONSE FDD - -RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, {{RadioLinkSetupResponseFDD-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }| ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }| { ID id-CommunicationControlPortID CRITICALITY ignore TYPE CommunicationControlPortID PRESENCE mandatory }| ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory }| { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },

```
. . .
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
      ID id-HSDSCH-FDD-Information-Response
                                                         CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                                  PRESENCE optional }|
     ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                                 CRITICALITY ignore
                                                                                                                      EXTENSION
    ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                             PRESENCE optional },
    . . .
}
RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container{{ RL-InformationResponseItemIE-RL-
SetupRspFDD }}
RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory
RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE
    rL-ID
                                                     RL-ID,
    rL-Set-ID
                                                     RL-Set-ID,
    received-total-wide-band-power
                                                     Received-total-wide-band-power-Value,
    diversityIndication
                                                     DiversityIndication-RL-SetupRspFDD,
    not-Used-dSCH-InformationResponseList
                                                     NULL
                                                                                     OPTIONAL,
    sSDT-SupportIndicator
                                                     SSDT-SupportIndicator,
    iE-Extensions
                                                     ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
    OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-ActivationIndicator
                                                         CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                    PRESENCE optional
}|
     ID id-E-DCH-RL-Set-ID
                                                         CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                                     PRESENCE optional
}|
                                                                                                                                    PRESENCE optional
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                         CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
}|
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                         CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                                    PRESENCE optional
},
    . . .
}
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                                NonCombiningOrFirstRL-RL-SetupRspFDD
}
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-TD
                                                RL-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
}
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE dCH-InformationResponse DCH-InformationResponse, iE-Extensions ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL. . . . NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }, . . . \_ \_ -- RADIO LINK SETUP RESPONSE TDD RadioLinkSetupResponseTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {RadioLinkSetupResponseTDD-IEs}}, {{RadioLinkSetupResponseTDD-Extensions}} ProtocolExtensionContainer OPTIONAL, protocolExtensions . . . RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= · ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory ID id-CommunicationControlPortID PRESENCE mandatory } CRITICALITY ignore TYPE CommunicationControlPortID { ID id-RL-InformationResponse-RL-SetupRspTDD PRESENCE optional }| CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-RL-InformationResponse-LCR-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-InformationResponse-LCR-RL-SetupRspTDD PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional }| { ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional }, . . . RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-ID RL-ID, uL-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL, dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspTDD OPTIONAL, USCH-InformationResponseList-RL-SetupRspTDD uSCH-InformationResponseList OPTIONAL, ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } } iE-Extensions OPTIONAL, . . .

```
RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container{{ DCH-InformationResponseListIEs-RL-SetupRspTDD }}
DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    ID id-DCH-InformationResponse CRITICALITY
                                                  ignore
                                                             TYPE
                                                                     DCH-InformationResponse PRESENCE
                                                                                                               mandatory }
DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspTDD }}
DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                            PRESENCE mandatory }
USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-SetupRspTDD }}
USCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                            PRESENCE mandatory }
RL-InformationResponse-LCR-RL-SetupRspTDD ::= SEQUENCE {
   rL-ID
                                                  RL-ID,
    uL-TimeSlot-ISCP-LCR-Info
                                                  UL-TimeSlot-ISCP-LCR-Info,
   ul-PhysCH-SF-Variation
                                                  UL-PhysCH-SF-Variation,
    dCH-InformationResponseList
                                                  DCH-InformationResponseList-RL-SetupRspTDD
                                                                                                                  OPTIONAL,
    dSCH-InformationResponseList
                                                  DSCH-InformationResponseList-RL-SetupRspTDD
                                                                                                                  OPTIONAL,
    uSCH-InformationResponseList
                                                  USCH-InformationResponseList-RL-SetupRspTDD
                                                                                                                  OPTIONAL,
                                                  ProtocolExtensionContainer { { RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    - -
-- RADIO LINK SETUP FAILURE FDD
- -
         RadioLinkSetupFailureFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkSetupFailureFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
                                                                                                               OPTIONAL,
    . . .
}
RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                              CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                  PRESENCE mandatory } |
     ID id-NodeB-CommunicationContextID
                                                                                                                  PRESENCE conditional }|
                                              CRITICALITY ignore TYPE NodeB-CommunicationContextID
```

```
-- This IE shall be present if at least one of the radio links has been successfully set up
                                                CRITICALITY ignore TYPE CommunicationControlPortID
     ID id-CommunicationControlPortID
                                                                                                                        PRESENCE optional }|
                                                CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                                        PRESENCE mandatory }
      ID id-CauseLevel-RL-SetupFailureFDD
     ID id-CriticalityDiagnostics
                                                CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                        PRESENCE optional },
    . . .
}
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause
                        RLSpecificCauseList-RL-SetupFailureFDD,
    . . .
3
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                                 OPTIONAL.
    . . .
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                                 Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                 Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL,
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-HSDSCH-FDD-Information-Response
                                                CRITICALITY ignore
                                                                         EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                           PRESENCE optional }|
     ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                                 CRITICALITY ignore
                                                                                                                        EXTENSION
    ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                             PRESENCE optional },
    . . .
Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-SetupFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore
                                                                                             TYPE Unsuccessful-RL-InformationRespItem-RL-
SetupFailureFDD PRESENCE mandatory }
Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    cause
                                        Cause,
    iE-Extensions
                                        ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
    OPTIONAL,
```

. . . 3 Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= { { ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, rL-Set-ID RL-Set-ID, received-total-wide-band-power Received-total-wide-band-power-Value, DiversityIndication-RL-SetupFailureFDD, diversityIndication not-Used-dSCH-InformationResponseList NULL OPTIONAL, NULL not-Used-tFCI2-BearerInformationResponse OPTIONAL, SSDT-SupportIndicator, sSDT-SupportIndicator iE-Extensions ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }| ID id-E-DCH-RL-Set-ID CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }| ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }| { ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }, . . . DiversityIndication-RL-SetupFailureFDD ::= CHOICE { combining Combining-RL-SetupFailureFDD, nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD } Combining-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

}|

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE { dCH-InformationResponse DCH-InformationResponse, ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }, . . . - --- RADIO LINK SETUP FAILURE TDD RadioLinkSetupFailureTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}} OPTIONAL, protocolExtensions . . . RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID ΤD CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory ID id-CauseLevel-RL-SetupFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD PRESENCE mandatory ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . CauseLevel-RL-SetupFailureTDD ::= CHOICE { generalCause GeneralCauseList-RL-SetupFailureTDD, RLSpecificCauseList-RL-SetupFailureTDD, rLSpecificCause . . . } GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE { cause Cause, ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE { unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,

```
ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL.
    . . .
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
     ID id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-SetupFailureTDD
    PRESENCE mandatory
}
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD ::= SEQUENCE {
   rL-ID
                                      RL-ID,
    cause
                                      Cause,
   iE-Extensions
                                      ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    RADIO LINK ADDITION REQUEST FDD
_ _
          ********
RadioLinkAdditionReguestFDD ::= SEOUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkAdditionRequestFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                                     OPTIONAL.
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                                  CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                  PRESENCE mandatory
                                                                                                                                      }
     ID id-Compressed-Mode-Deactivation-Flag
                                                  CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag
                                                                                                                  PRESENCE optional }|
                                                                                                                  PRESENCE mandatory },
     ID id-RL-InformationList-RL-AdditionRqstFDD
                                                  CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD
    . . .
RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed
                                                         CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed
    PRESENCE optional }
     ID id-Serving-E-DCH-RL-ID
                                                  CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID
                                                                                                                     PRESENCE optional }
     ID id-Serving-Cell-Change-CFN
                                                  CRITICALITY reject EXTENSION CFN
                                                                                                                     PRESENCE optional
     ID id-HS-DSCH-Serving-Cell-Change-Info
                                                  CRITICALITY reject EXTENSION HS-DSCH-Serving-Cell-Change-Info
                                                                                                                     PRESENCE optional }
     ID id-E-DPCH-Information-RL-AdditionReqFDD
                                                                                                                     PRESENCE optional }
                                                  CRITICALITY reject EXTENSION E-DPCH-Information-RL-AdditionReqFDD
```

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PRESENCE conditional }, { ID id-E-DCH-FDD-Information CRITICALITY reject EXTENSION E-DCH-FDD-Information -- This IE shall be present if E-DPCH Information is present . . . RL-InformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-AdditionRqstFDD} } RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationItem-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-AdditionRqstFDD PRESENCE mandatory } RL-InformationItem-RL-AdditionRgstFDD ::= SEQUENCE rL-ID RL-ID. c-ID C-ID. frameOffset. FrameOffset, chipOffset ChipOffset, diversityControlField DiversityControlField, dl-CodeInformation FDD-DL-CodeInformation, initialDL-TransmissionPower OPTIONAL. DL-Power maximumDL-Power DL-Power OPTIONAL, minimumDL-Power DL-Power OPTIONAL, not-Used-sSDT-CellIdentity NULT OPTIONAL, transmitDiversitvIndicator TransmitDiversitvIndicator OPTIONAL, ProtocolExtensionContainer { { iE-Extensions RL-InformationItem-RL-AdditionRgstFDD-ExtIEs } } OPTIONAL, . . . RL-InformationItem-RL-AdditionRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }| ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional }| ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional }| ID id-E-DCH-RL-Indication CRITICALITY reject EXTENSION E-DCH-RL-Indication PRESENCE optional } | ID id-RL-Specific-E-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info PRESENCE optional }| ID id-SynchronisationIndicator CRITICALITY ignore EXTENSION SynchronisationIndicator PRESENCE optional }| { ID id-F-DPCH-SlotFormat CRITICALITY reject EXTENSION F-DPCH-SlotFormat PRESENCE optional }, E-DPCH-Information-RL-AdditionRegFDD ::= SEOUENCE maxSet-E-DPDCHs Max-Set-E-DPDCHs, ul-PunctureLimit PunctureLimit, e-TFCS-Information E-TFCS-Information, e-TTI E-TTI, e-DPCCH-PO E-DPCCH-PO, e-RGCH-2-IndexStepThreshold E-RGCH-2-IndexStepThreshold, e-RGCH-3-IndexStepThreshold E-RGCH-3-IndexStepThreshold,

```
hARO-Info-for-E-DCH
                                              HARQ-Info-for-E-DCH,
   iE-Extensions
                                              ProtocolExtensionContainer { { E-DPCH-Information-RL-AdditionRegFDD-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
E-DPCH-Information-RL-AdditionRegFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCH-Configured-Indicator
                                          CRITICALITY reject EXTENSION HSDSCH-Configured-Indicator
                                                                                                                  PRESENCE mandatory },
    -- This shall be present for EDPCH configuration with HSDCH
    . . .
}
  *****
_ _
-- RADIO LINK ADDITION REQUEST TDD
  *****
RadioLinkAdditionReguestTDD ::= SEQUENCE {
                                                      {{RadioLinkAdditionRequestTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkAdditionRequestTDD-Extensions}}
                                                                                                                  OPTIONAL,
    . . .
}
RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                         CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                             PRESENCE
mandatory }|
    { ID id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                         CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRgstTDD PRESENCE optional
} |
     ID id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                          CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRgstTDD PRESENCE optional
}|
    { ID id-RL-Information-RL-AdditionRqstTDD
                                                         CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD
                                                                                                                             PRESENCE
mandatory },
   . . .
RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-TDD-Information
                                          CRITICALITY reject
                                                                                                               PRESENCE optional } |
                                                                 EXTENSION HSDSCH-TDD-Information
                                                                                                               PRESENCE conditional } |
    { ID id-HSDSCH-RNTI
                                          CRITICALITY reject
                                                                 EXTENSION HSDSCH-RNTI
    -- The IE shall be present if HS-PDSCH RL ID IE is present.
     ID id-HSPDSCH-RL-ID
                                          CRITICALITY reject
                                                                                                               PRESENCE optional }
                                                                 EXTENSION RL-ID
                                                                                                               PRESENCE optional
     ID id-E-DCH-Information
                                          CRITICALITY reject
                                                                 EXTENSION E-DCH-Information
                                          CRITICALITY reject
                                                                                                               PRESENCE optional }
     ID id-E-DCH-Serving-RL-ID
                                                                 EXTENSION RL-ID
                                          CRITICALITY reject
                                                                                                               PRESENCE optional }
     ID id-E-DCH-768-Information
                                                                 EXTENSION E-DCH-768-Information
     ID id-E-DCH-LCR-Information
                                          CRITICALITY reject
                                                                                                               PRESENCE optional }
                                                                 EXTENSION E-DCH-LCR-Information
    { ID id-PowerControlGAP
                                          CRITICALITY ignore
                                                                 EXTENSION ControlGAP
                                                                                                               PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UE-Selected-MBMS-Service-Information
                                                         CRITICALITY iqnore
                                                                                 EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional },
    . . .
```

UL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRqstTDD

```
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID.
                                                                                                 OPTIONAL, -- Applicable to 3.84cps TDD only
    uL-DPCH-Information
                                                UL-DPCH-InformationList-RL-AdditionRgstTDD
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRgstTDD-ExtIEs } } OPTIONAL,
    . . .
3
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD
                optional } -- Applicable to 1.28cps TDD only
    PRESENCE
    { ID id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional } |--
Applicable to 1.28cps TDD only
    { ID id-UL-DPCH-InformationItem-768-RL-AdditionRgstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-768-RL-AdditionRgstTDD
    PRESENCE
                optional }, -- Applicable to 7.68Mcps TDD only
    . . .
3
UL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE optional }
    -- For 3.84Mcps TDD only
}
UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
```

```
uL-Timeslot768-Information
                                            UL-Timeslot768-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-768-RL-AdditionRgstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
UL-DPCH-InformationItem-768-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRqstTDD
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID.
    dL-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRgstTDD
                                                                                     OPTIONAL,
                                                                                                -- Applicable to 3.84Mcps TDD only
                                    ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRgstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD
    { ID
                                                                CRITICALITY notify
                                                                                         EXTENSION DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD
        PRESENCE
                    optional } | -- Applicable to 1.28Mcps TDD only
      ID id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY iqnore
                                                                                                                              PRESENCE optional
                                                                                         EXTENSION DL-Power
      ID id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD
                                                                CRITICALITY reject
                                                                                         EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional
      ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY ignore
                                                                                         EXTENSION DL-Power
                                                                                                                             PRESENCE optional
      ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD
                                                                CRITICALITY iqnore
                                                                                         EXTENSION DL-Power
                                                                                                                             PRESENCE optional }
          id-DL-DPCH-InformationItem-768-RL-AdditionRqstTDD
                                                                CRITICALITY notify
                                                                                         EXTENSION DL-DPCH-InformationItem-768-RL-AdditionRgstTDD
     ID
        PRESENCE
                   optional }, -- Applicable to 7.68Mcps TDD only
    . . .
DL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-AdditionRgstTDD
                                                                                                                                 PRESENCE mandatory }
DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                            DL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                       OPTIONAL.
    . . .
DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                            DL-TimeslotLCR-Information,
```

```
ProtocolExtensionContainer { { DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
                                          RepetitionPeriod,
   repetitionPeriod
   repetitionLength
                                          RepetitionLength,
   tdd-DPCHOffset
                                          TDD-DPCHOffset,
   dL-Timeslot768-Information
                                          DL-Timeslot768-Information,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL.
    . . .
DL-DPCH-InformationItem-768-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
٦
RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
   rL-TD
                                              RL-ID,
   c-ID
                                              C-ID,
    frameOffset
                                              FrameOffset,
    diversityControlField
                                              DiversityControlField,
    initial-DL-Transmission-Power
                                              DL-Power
                                                                  OPTIONAL,
   maximumDL-Power
                                              DL-Power
                                                                  OPTIONAL,
   minimumDL-Power
                                              DL-Power
                                                                  OPTIONAL,
                                                                              -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
   dL-TimeSlotISCPInfo
                                              DL-TimeslotISCPInfo OPTIONAL,
                                              ProtocolExtensionContainer { { RL-information-RL-AdditionRgstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-TimeslotISCPInfoLCR
                                                                                                                         PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
     ID id-RL-Specific-DCH-Info
                                                              CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                   PRESENCE
                                                                                                                               optional }
     ID id-DelayedActivation
                                                              CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional }
    { ID id-UL-Synchronisation-Parameters-LCR
                                                              CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE
    optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    { ID id-UARFCNforNt
                                                              CRITICALITY reject EXTENSION UARFCN
                                                                                                                   PRESENCE optional },
     -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
     ******************
- -
-- RADIO LINK ADDITION RESPONSE FDD
_ _
   RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                                      {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                           ProtocolIE-Container
```

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```
ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                          OPTIONAL,
    protocolExtensions
RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                                            CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                                   PRESENCE
mandatory } |
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                            CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD PRESENCE
mandatory } |
    { ID id-CriticalityDiagnostics
                                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                                   PRESENCE optional
},
    . . .
RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-HS-DSCH-Serving-Cell-Change-Info-Response
                                                            CRITICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
    PRESENCE optional }|
{ ID id-E-DCH-Serving-Cell-Change-Info-Response
                                                            CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
    PRESENCE optional },
    . . .
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-
RL-AdditionRspFDD }}
RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD PRESENCE
mandatory }
}
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE
    rL-TD
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID,
    received-total-wide-band-power
                                        Received-total-wide-band-power-Value,
    diversitvIndication
                                        DiversitvIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    iE-Extensions
                                        ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-DL-PowerBalancing-ActivationIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                PRESENCE optional }
      ID id-E-DCH-RL-Set-ID
                                                                                                                                PRESENCE optional
                                                        CRITICALITY ignore EXTENSION RL-Set-ID
      ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                        CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                        CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                                PRESENCE optional },
}
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                                    Combining-RL-AdditionRspFDD,
    non-combining
                                                    Non-Combining-RL-AdditionRspFDD
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
```

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rL-ID RL-ID, iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL. . . . CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }, . . . } Non-Combining-RL-AdditionRspFDD ::= SEQUENCE { dCH-InformationResponse DCH-InformationResponse, iE-Extensions ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL, . . . Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= · { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }, . . . - -RADIO LINK ADDITION RESPONSE TDD - -RadioLinkAdditionResponseTDD ::= SEQUENCE { {{RadioLinkAdditionResponseTDD-IEs}}, protocolIEs ProtocolIE-Container {{RadioLinkAdditionResponseTDD-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }| ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE optional } | -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-RL-InformationResponse-LCR-RL-AdditionRspTDD CRITICALITY ignore EXTENSION RL-InformationResponse-LCR-RL-AdditionRspTDD PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional } | { ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional }, . . . RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE { rL-ID RL-ID, uL-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info,

```
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```

```
ul-PhysCH-SF-Variation
                                                 UL-PhysCH-SF-Variation,
    dCH-Information
                                                 DCH-Information-RL-AdditionRspTDD
                                                                                                                      OPTIONAL
    dSCH-InformationResponseList
                                                 DSCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                                      OPTIONAL.
    uSCH-InformationResponseList
                                                 USCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                                      OPTIONAL
    iE-Extensions
                                                 ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
    iE-Extensions
                                        ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-AdditionRspTDD ::= CHOICE
    combining
                                                 Combining-RL-AdditionRspTDD,
                                                                                 -- Indicates whether the old Transport Bearer shall be reused or
not
    non-Combining
                                                 Non-Combining-RL-AdditionRspTDD
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                                 RL-ID, -- Reference RL
    iE-Extensions
                                                 ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Non-Combining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse
                                                 DCH-InformationResponse,
                                                 ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
Non-CombiningItem-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ·
}
DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocollE-Single-Container {{ DSCH-InformationResponseListIEs-RL-AdditionRspTDD }}
DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
     ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                                  PRESENCE mandatory }
```

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USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-AdditionRspTDD }}

```
USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                            PRESENCE mandatory }
RL-InformationResponse-LCR-RL-AdditionRspTDD ::= SEQUENCE
    rL-ID
                                              RL-ID,
   uL-TimeSlot-ISCP-InfoLCR
                                              UL-TimeSlot-ISCP-LCR-Info,
   ul-PhysCH-SF-Variation
                                              UL-PhysCH-SF-Variation,
    dCH-Information
                                              DCH-Information-RL-AdditionRspTDD
                                                                                                               OPTIONAL,
    dSCH-InformationResponseList
                                              DSCH-InformationResponseList-RL-AdditionRspTDD
                                                                                                               OPTIONAL,
                                              USCH-InformationResponseList-RL-AdditionRspTDD
    uSCH-InformationResponseList
                                                                                                               OPTIONAL.
   iE-Extensions
                                              ProtocolExtensionContainer { { RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs } }
                                                                                                                                   OPTIONAL.
    . . .
RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     - -
  RADIO LINK ADDITION FAILURE FDD
- -
         RadioLinkAdditionFailureFDD ::= SEQUENCE {
                                                      {{RadioLinkAdditionFailureFDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
                           ProtocolExtensionContainer
                                                      {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
    . . .
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID
                                                  CRITICALITY ignore
                                                                         TYPE CRNC-CommunicationContextID
                                                                                                                           PRESENCE mandatory
} |
     ID id-CauseLevel-RL-AdditionFailureFDD
                                                  CRITICALITY ignore
                                                                         TYPE CauseLevel-RL-AdditionFailureFDD
                                                                                                                           PRESENCE mandatory
}|
    { ID id-CriticalityDiagnostics
                                                  CRITICALITY ignore
                                                                         TYPE CriticalityDiagnostics
                                                                                                                           PRESENCE optional },
    . . .
}
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
 ID id-HS-DSCH-Serving-Cell-Change-Info-Response CRITICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
                                                                                                                           PRESENCE optional }
 ID id-E-DCH-Serving-Cell-Change-Info-Response
                                                  CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
                                                                                                                           PRESENCE optional
 ID id-MAChs-ResetIndicator
                                                  CRITICALITY ignore EXTENSION MAChs-ResetIndicator
                                                                                                                           PRESENCE optional },
    . . .
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
                       GeneralCauseList-RL-AdditionFailureFDD,
   generalCause
    rLSpecificCause
                       RLSpecificCauseList-RL-AdditionFailureFDD,
    . . .
```

```
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    cause
                                                Cause.
    iE-Extensions
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                     Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                     Successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                                                                                          OPTIONAL.
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE mandatory }
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-2)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-
AdditionFailureFDD PRESENCE mandatory }
Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    rL-Set-ID
                                                RL-Set-ID,
    received-total-wide-band-power
                                                Received-total-wide-band-power-Value,
    diversityIndication
                                                DiversityIndication-RL-AdditionFailureFDD,
```

```
sSDT-SupportIndicator
                                             SSDT-SupportIndicator,
   iE-Extensions
                                             ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
   OPTIONAL.
    . . .
Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-ActivationIndicator
                                                     CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                            PRESENCE optional
}|
     ID id-E-DCH-RL-Set-ID
                                                     CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                            PRESENCE optional
}|
    ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                            PRESENCE optional
}|
    { ID id-Initial-DL-DPCH-TimingAdjustment
                                                     CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                            PRESENCE optional
},
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
                                  Combining-RL-AdditionFailureFDD,
    combining
   non-Combining
                                  Non-Combining-RL-AdditionFailureFDD
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID
                                             RL-ID,
   iE-Extensions
                                             ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                          PRESENCE optional },
    . . .
}
Non-Combining-RL-AdditionFailureFDD ::= SEQUENCE
   dCH-InformationResponse
                                             DCH-InformationResponse,
   iE-Extensions
                                             ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                          PRESENCE optional },
    . . .
    - -
-- RADIO LINK ADDITION FAILURE TOD
  RadioLinkAdditionFailureTDD ::= SEQUENCE {
   protocolIEs
                                                      {{RadioLinkAdditionFailureTDD-IEs}},
                          ProtocolIE-Container
                                                     {{RadioLinkAdditionFailureTDD-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                 OPTIONAL,
```

```
. . .
3
RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
      ТD
           id-CRNC-CommunicationContextID
                                                         CRITICALITY ignore
                                                                                 TYPE CRNC-CommunicationContextID
                                                                                                                            PRESENCE mandatory }
     ID
           id-CauseLevel-RL-AdditionFailureTDD
                                                         CRITICALITY ignore
                                                                                 TYPE CauseLevel-RL-AdditionFailureTDD
                                                                                                                            PRESENCE mandatory }
     ID
           id-CriticalityDiagnostics
                                                         CRITICALITY iqnore
                                                                                 TYPE CriticalityDiagnostics
                                                                                                                            PRESENCE optional },
    . . .
RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
٦
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-AdditionFailureTDD,
                        RLSpecificCauseList-RL-AdditionFailureTDD,
    rLSpecificCause
    . . .
GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
    cause
                                Cause,
                                ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD
                                                                 Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
    iE-Extensions
                                                                 ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs }
        OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-
AdditionFailureTDD } }
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD NBAP-PROTOCOL-IES ::= {
    ID id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD CRITICALITY iqnore TYPE Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD
    PRESENCE mandatory
}
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    cause
                                     Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
```

}							
Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {							
}							
************	****						
RADIO LINK RECONFIGURATION PREPARE FDD 							
************************************	****						
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {     protocolIEs ProtocolIE-Container     protocolExtensions ProtocolExtensionContainer	<pre>{{RadioLinkReconfigurationPrepareFDD-IEs}}, {{RadioLinkReconfigurationPrepareFDD-Extensions}} OPTIONAL,</pre>						
}							
RadioLinkReconfigurationPrepareFDD-IEs NBAP-PROTOCOL-IE; { ID id-NodeB-CommunicationContextID mandatory }	<pre>3 ::= {             CRITICALITY reject TYPE NodeB-CommunicationContextID</pre>	PRESENCE					
{    ID id-UL-DPCH-Information-RL-ReconfPrepFDD	CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD	PRESENCE					
optional }  { ID id-DL-DPCH-Information-RL-ReconfPrepFDD	CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD	PRESENCE					
optional }  { ID id-FDD-DCHs-to-Modify	CRITICALITY reject TYPE FDD-DCHs-to-Modify	PRESENCE					
optional }  { ID id-DCHs-to-Add-FDD	CRITICALITY reject TYPE DCH-FDD-Information	PRESENCE					
optional }  { ID id-DCH-DeleteList-RL-ReconfPrepFDD	CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD	PRESENCE					
optional }  { ID id-RL-InformationList-RL-ReconfPrepFDD	CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD	PRESENCE					
optional }  { ID id-Transmission-Gap-Pattern-Sequence-Information	on CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information	PRESENCE					
optional },							
}							
<pre>{ ID id-HSDSCH-FDD-Information CRI' { ID id-HSDSCH-Information-to-Modify CRI' { ID id-HSDSCH-MACdFlows-to-Add CRI' { ID id-HSDSCH-MACdFlows-to-Delete CRI' { ID id-HSDSCH-RNTI CRI' The IE shall be present if HS-PDSCH RL ID IE is j { ID id-HSPDSCH-RL-ID CRI' { ID id-HSPDSCH-RL-ID CRI' { ID id-E-DPCH-Information-RL-ReconfPrepFDD CRI' { ID id-E-DCH-FDD-Information-to-Modify CRI' { ID id-E-DCH-MACdFlows-to-Add CRI' } </pre>	PICALITY rejectEXTENSIONSignallingBearerRequestIndicatorPRESEPICALITY rejectEXTENSIONHSDSCH-FDD-InformationPRESEPICALITY rejectEXTENSIONHSDSCH-Information-to-ModifyPRESEPICALITY rejectEXTENSIONHSDSCH-MACdFlows-InformationPRESEPICALITY rejectEXTENSIONHSDSCH-MACdFlows-to-DeletePRESEPICALITY rejectEXTENSIONHSDSCH-RNTIPRESEPICALITY rejectEXTENSIONHSDSCH-RNTIPRESEPICALITY rejectEXTENSIONRL-IDPRESEPICALITY rejectEXTENSIONE-DPCH-Information-RL-ReconfPrepFDDPRESEPICALITY rejectEXTENSIONE-DCH-FDD-InformationPRESEPICALITY rejectEXTENSIONE-DCH-FDD-InformationPRESEPICALITY rejectEXTENSIONE-DCH-FDD-InformationPRESEPICALITY rejectEXTENSIONE-DCH-FDD-InformationPRESEPICALITY rejectEXTENSIONE-DCH-FDD-Information-to-ModifyPRESEPICALITY rejectEXTENSIONE-DCH-MACdFlows-InformationPRESE	<pre>NCE optional }  NCE optional } </pre>					
(ID id-Serving-E-DCH-RL-ID CRI	CICALITY reject EXTENSION Serving-E-DCH-RL-ID PRESE	NCE optional }  NCE optional }					

```
ID id-Fast-Reconfiguration-Mode
                                                     CRITICALITY ignore EXTENSION Fast-Reconfiguration-Mode
                                                                                                                               PRESENCE optional }|
     ID id-CPC-Information
                                                     CRITICALITY reject EXTENSION CPC-Information
                                                                                                                               PRESENCE optional },
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode
                                                     UL-ScramblingCode
                                                                                          OPTIONAL,
    ul-SIR-Target
                                                     UL-SIR
                                                                                          OPTIONAL,
    minUL-ChannelisationCodeLength
                                                     MinUL-ChannelisationCodeLength
                                                                                          OPTIONAL,
    maxNrOfUL-DPDCHs
                                                     MaxNrOfUL-DPDCHs
                                                                                          OPTIONAL,
    -- This IE shall be present if minUL-ChannelisationCodeLength Ie is set to 4
    ul-PunctureLimit
                                                     PunctureLimit
                                                                                          OPTIONAL,
    tFCS
                                                     TFCS
                                                                                          OPTIONAL.
    ul-DPCCH-SlotFormat
                                                     UL-DPCCH-SlotFormat
                                                                                          OPTIONAL,
    diversityMode
                                                     DiversityMode
                                                                                          OPTIONAL,
    not-Used-sSDT-CellIDLength
                                                     NULL
                                                                                          OPTIONAL,
    not-Used-s-FieldLength
                                                     NULL
                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation
                                                                                                                                  PRESENCE optional },
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS
                                                     TFCS
                                                                                          OPTIONAL,
    dl-DPCH-SlotFormat
                                                     DL-DPCH-SlotFormat
                                                                                          OPTIONAL,
    tFCI-SignallingMode
                                                     TFCI-SignallingMode
                                                                                          OPTIONAL,
    tFCI-Presence
                                                     TFCI-Presence
                                                                                          OPTIONAL,
    -- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to 16
    multiplexingPosition
                                                     MultiplexingPosition
                                                                                          OPTIONAL,
    not-Used-pDSCH-CodeMapping
                                                     NULL
                                                                                          OPTIONAL,
                                                     NULL
    not-Used-pDSCH-RL-ID
                                                                                          OPTIONAL,
    limitedPowerIncrease
                                                     LimitedPowerIncrease
                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-Power-Information-RL-ReconfPrepFDD CRITICALITY reject EXTENSION DL-DPCH-Power-Information-RL-ReconfPrepFDD PRESENCE optional
},
    . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    powerOffsetInformation
                                             PowerOffsetInformation-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                             FDD-TPC-DownlinkStepSize,
    innerLoopDLPCStatus
                                             InnerLoopDLPCStatus,
    iE-Extensions
                                             ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
```

```
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
                                            PowerOffset,
    pO1-ForTFCI-Bits
   pO2-ForTPC-Bits
                                            PowerOffset,
   pO3-ForPilotBits
                                            PowerOffset,
    iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID.
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
}
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}
RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
    { ID
          id-RL-InformationItem-RL-ReconfPrepFDD
                                                            CRITICALITY
                                                                                             TYPE
                                                                                                                     RL-InformationItem-RL-
                                                                             reject
ReconfPrepFDD
                    PRESENCE
                                mandatory }
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID
                                                     RL-ID,
    dl-CodeInformation
                                                     FDD-DL-CodeInformation
                                                                                                 OPTIONAL,
    maxDL-Power
                                                    DL-Power
                                                                                                 OPTIONAL,
    minDL-Power
                                                    DL-Power
                                                                                                 OPTIONAL,
    not-Used-sSDT-Indication
                                                    NULL
                                                                                                 OPTIONAL,
    not-Used-sSDT-Cell-Identity
                                                    NULL
                                                                                                 OPTIONAL,
                                                    TransmitDiversityIndicator
    transmitDiversityIndicator
                                                                                                 OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to 'none'
    iE-Extensions
                                                    ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-DLReferencePower
                                                    CRITICALITY ignore EXTENSION DL-Power
                                                                                                                              PRESENCE optional
      ID id-RL-Specific-DCH-Info
                                                    CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
                                                                                                                              PRESENCE optional
      ID id-DL-DPCH-TimingAdjustment
                                                    CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                              PRESENCE optional }
      ID id-Primary-CPICH-Usage-for-Channel-Estimation
                                                            CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation
    PRESENCE optional } |
```

```
ID id-Secondary-CPICH-Information-Change
                                                  CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change
                                                                                                                        PRESENCE optional }
     ID id-E-DCH-RL-Indication
                                                  CRITICALITY reject EXTENSION E-DCH-RL-Indication
                                                                                                                        PRESENCE optional
     ID id-RL-Specific-E-DCH-Info
                                                  CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
                                                                                                                        PRESENCE optional
     ID id-F-DPCH-SlotFormat
                                                  CRITICALITY reject EXTENSION F-DPCH-SlotFormat
                                                                                                                        PRESENCE optional },
    . . .
}
E-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   maxSet-E-DPDCHs
                                              Max-Set-E-DPDCHs
                                                                                                                          OPTIONAL,
   ul-PunctureLimit
                                              PunctureLimit
                                                                                                                          OPTIONAL,
   e-TFCS-Information
                                              E-TFCS-Information
                                                                                                                          OPTIONAL,
   e-TTI
                                              E-TTI
                                                                                                                          OPTIONAL,
   e-DPCCH-PO
                                              E-DPCCH-PO
                                                                                                                          OPTIONAL,
   e-RGCH-2-IndexStepThreshold
                                              E-RGCH-2-IndexStepThreshold
                                                                                                                          OPTIONAL,
    e-RGCH-3-IndexStepThreshold
                                              E-RGCH-3-IndexStepThreshold
                                                                                                                          OPTIONAL,
   hARO-Info-for-E-DCH
                                              HARO-Info-for-E-DCH
                                                                                                                          OPTIONAL,
   hSDSCH-Configured-Indicator
                                              HSDSCH-Configured-Indicator
                                                                                                                           OPTIONAL,
                                              ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
   powerOffsetInformation
                                      PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    fdd-TPC-DownlinkStepSize
                                      FDD-TPC-DownlinkStepSize,
   limitedPowerIncrease
                                      LimitedPowerIncrease,
                                      InnerLoopDLPCStatus,
   innerLoopDLPCStatus
                                      ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE {
   pO2-ForTPC-Bits
                                      PowerOffset,
    -- This IE shall be ignored by Node B
                                      ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                             OPTIONAL.
    . . .
}
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
     - -
-- RADIO LINK RECONFIGURATION PREPARE TDD
_ _
```

## ETSI TS 125 433 V7.16.0 (2010-05)

<pre>} RedictinkReconfigurationPrepareTDD-HES NRAP-PROTOCOL-IES :== {     {</pre>		DLinkReconfiguration DLinkReconfiguration	PrepareTDD-IEs}}, PrepareTDD-Extensions}} OPTIC	DNAL,
{ TD id-Node-CommunicationContextID     CRITICALITY reject     TYPE Node-CommunicationContextID     PRESENCE mandatory       } { TD id-Node-CommunicationContextID     PRESENCE AccordPrepTDD     CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD        CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD     CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD        CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD     CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD        FRESENCE optional } //     (TD Id-DC-CTYCH-InformationAddist-RL-ReconfPrepTDD     CRITICALITY reject     TYPE Un-CCTYCH-InformationAddist-RL-ReconfPrepTDD        FRESENCE optional } //     (TD Id-DC-CTYCH-InformationAddist-RL-ReconfPrepTDD     CRITICALITY reject     TYPE DL-CCTYCH-InformationAddist-RL-ReconfPrepTDD        FRESENCE optional } //     (TD Id-DC-CTYCH-InformationDeleteList-RL-ReconfPrepTDD     CRITICALITY reject     TYPE DD-CCTYCH-InformationAddist-RL-ReconfPrepTDD        FRESENCE optional } //     (TD Id-DCH-to-Add-TDD     (CRITICALITY reject     TYPE DD-CCTYCH-Information     PRESENCE optional } //        (TD Id-DCH-to-Add-TDD     (CRITICALITY reject     TYPE DD-CTYCH-Information     PRESENCE optional } //        (TD Id-DCH-to-Add-TDD     (CRITICALITY reject     TYPE DD-CTYCH-Information     PRESENCE optional } //	}			
<pre>( D id-UL-CUTCH-informationAddList-RL-ReconfFregTDD PRESENCE optional )) ( D id-UL-CUTCH-informationModifyList-RL-ReconfFregTDD PRESENCE optional )) ( D id-UL-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-informationModifyList-RL-ReconfFregTDD ( D id-DU-CUTCH-information-ModifyList-RL-ReconfFregTDD ( D id-SUGALIST reject TYPE DDCH-Information -DeleteList-RL-ReconfFregTDD ( D id-SUGALIST reject TYPE DDCH-Information-ModifyList-RL-ReconfFregTDD ( D id-SUGALIST repeateDD-RieseIIICALITY reject TYPE DDCH-Information-ModifyList-RL-ReconfFregTDD ( D id-SUGALIST repeateDD-RieseIIICALITY reject TYPE DDCH-Information-ModifyList-RL-ReconfFregTDD ( D id-SUGALIST repeateDD-RieseIIICALITY reject TYPE</pre>	{ ID id-NodeB-CommunicationContextID	CRITICALITY reject	TYPE NodeB-CommunicationContextID	PRESENCE mandatory
<pre>( D id-UD_CCTCH_informationModifyList_RL-ReconfPrepTDD PRESENCE optional }) { (D id-DCH_oteList_RL-ReconfPrepTDD (D id-SignallingBearerRequestInd_CAL) (D id-SignallingBearerRequestInd_CAC) (D id-Signalling</pre>	{    ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	CRITICALITY reject	TYPE UL-CCTrCH-InformationAddList-RL-Re	confPrepTDD
<pre>{ D id-UL_CCTCCH_informationDeleteList-RL-ReconfPrepTDD RESENCE optional }) { D id-UL_CCTCCH_informationAddList-RL-ReconfPrepTDD RESENCE optional }) { D id-UL_CCTCCH_informationAddList-RL-ReconfPrepTDD RESENCE optional }) { D id-UL_CCTCCH_informationAddList-RL-ReconfPrepTDD RESENCE optional }) { D id-DL-CCTCCH_informationAddList-RL-ReconfPrepTDD RESENCE optional }) { D id-DL-CCTCCH_informationAddList-RL-ReconfPrepTDD RESENCE optional }) { D id-DL-CCTCCH_informationAddTyList-RL-ReconfPrepTDD RESENCE optional }) { D id-DL-CCTCCH_informationAddTyList-RL-ReconfPrepTDD RESENCE optional }) { D id-DCCH-objeteList-RL-ReconfPrepTDD { CHIICALITY reject TYPE DC-CCTCH-informationAddList-RL-ReconfPrepTDD { CHIICALITY reject TYPE DC-CDF-to-Modify { PESSENCE optional }) { D id-DCCH-objeteList-RL-ReconfPrepTDD { CHIICALITY reject TYPE DCH-DD-st-to-Modify { D id-DCCH-objeteList-RL-ReconfPrepTDD { CHIICALITY reject TYPE DCH-DD-Information_ModifyList-RL-ReconfPrepTDD { RESENCE optional }) { D id-DCCH-information-DeleteList-RL-ReconfPrepTDD { CHIICALITY reject TYPE DCH-Information-ModifyList-RL-ReconfPrepTDD { RESENCE optional }) { D id-DCCH-information-DeleteList-RL-ReconfPrepTDD { RESENCE optional }) { D id-DCCH-information-RL-ReconfPrepTDD { RESENCE optional }) { D id-DCCH-information-RL-ReconfPrepTDD { RESENCE optional }) { D id-BCCH-information-RL-ReconfPrepTDD { RESENCE optional }} { D id-BCCH-information-RL-ReconfPrepTDD { RESENCE optional }} { D id-BCCH-information-RL-ReconfPrepTDD { RESENCE</pre>	{    ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	CRITICALITY reject	TYPE UL-CCTrCH-InformationModifyList-RL	-ReconfPrepTDD
FXESENCE optional }        CRITICALITY reject       TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DC-HoleteList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DC-HoleteList-RL-ReconfPrepTDD         FXESENCE optional }        CRITICALITY reject       TYPE DSCH-Information -ModifyList-RL-ReconfPrepTDD         FXESENCE optional	{    ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	CRITICALITY reject	TYPE UL-CCTrCH-InformationDeleteList-RL	-ReconfPrepTDD
<pre>{ ID id-UL_CCTYCH-informationModifyList-RL-ReconfPrepTDD PRESENCE optional }) { ID id-UL_CCTYCH-informationDeleteList-RL-ReconfPrepTDD PRESENCE optional }) { ID id-UL_CCTYCH-informationDeleteList-RL-ReconfPrepTDD PRESENCE optional }) { ID id-CDH-ot-Add-TDD { ID id-CDH-ot-Add-TDD { ID id-CDH-ot-Add-TDD { ID id-DCH-information_PRESENCE optional }) { ID id-DCH-ot-Add-TDD { ID id-DCH-ot-Add-TDD { ID id-DCH-ot-Add-TDD { ID id-DCH-ot-Add-TDD { ID id-DCH-ot-Add-TDD { ID id-DCH-ot-Add-TDD { ID id-DCH-information_PRESENCE optional }) { ID id-DCH-information_PRESENCE optional }) { ID id-DCH-information_DeleteList-RL-ReconfPrepTDD { ID id-DCH-information_PRESENCE optional }) { ID id-DCH-information_DeleteList-RL-ReconfPrepTDD { ID id-DCH-information_DeleteList-RL-ReconfPrepTDD { ID id-DCH-information_DeleteList-RL-ReconfPrepTDD { ID id-DCH-information_PRESENCE optional }) { ID id-UCH-information_DeleteList-RL-ReconfPrepTDD { PRESENCE optional }} { ID id-UCH-information_ModifyList-RL-ReconfPrepTDD { PRESENCE optional }} { ID id-UCH-information_DeleteList-RL-ReconfPrepTDD { PRESENCE optional }} { ID id-RECONFigurationPrepareTDD-Extensions NEAP-PROTOCOL-EXTENSION ::= { { ID id-RECONFiguration-RC-MOdify CRITICALITY reject EXTENSION MSDCH-Information-RL-ReconfPrepTDD { ID id-RECONFiguration-RC-Add CRITICALITY reject EXTENSION MSDCH-Information-RL-ReconfPrepTDD { ID id-RECONFinformation-to-Add CRITICALITY reject EXTENSION MSDCH-Inform</pre>	{    ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	CRITICALITY reject	TYPE DL-CCTrCH-InformationAddList-RL-Re	confPrepTDD
PRESENCE optional }        CRITICALITY reject TYPE TDD-DCHs-to-Modify       PRESENCE optional }          { ID id-DCD-clist-to-Add-TDD       CRITICALITY reject TYPE DCH-DDD-Information       PRESENCE optional }          { ID id-DCH-information-ModifyList-RL-ReconfPrepTDD       CRITICALITY reject TYPE DCH-Deletelist-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-DCH-information-ModifyList-RL-ReconfPrepTDD       CRITICALITY reject TYPE DCH-Deletelist-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-DCHs-information-Deletelist-RL-ReconfPrepTDD       CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-DSCHs-io-Add-TDD       CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-DSCHs-io-Add-TDD       CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-USGH-Information-Add       CRITICALITY reject TYPE USCH-Information Poletelist-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-USGH-Information-Beletelist-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information Poletelist-RL-ReconfPrepTDD       PRESENCE optional }          { ID id-USGH-Information-Deletelist-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information       PRESENCE optional },         { ID id-HSDSCH-Information-ConfrepTDD       CRITICALITY reject TYPE ISCH-Information-RL-ReconfPrepTDD       PRESENCE optional },         { ID id		CRITICALITY reject	TYPE DL-CCTrCH-InformationModifyList-RL	-ReconfPrepTDD
ID id-DCH=-to-Add-TDD       CRITICALITY reject TYPE DCH-TDD-Information       PRESENCE optional }           ID id-DCH-beteHeist-RL-ReconfPrepTDD       CRITICALITY reject TYPE DCH-Information-ModifyList-RL-ReconfPrepTDD       PRESENCE optional }           ID id-DSCH-information-ModifyList-RL-ReconfPrepTDD       CRITICALITY reject TYPE DCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD       PRESENCE optional }           ID id-DSCH-information-DeleteList-RL-ReconfPrepTDD       CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE USCH-Information DeleteList-RL-ReconfPrepTDD         PRESENCE optional }         CRITICALITY reject TYPE USCH-Information PRESENCE optional },         - This RL Information releteList-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD         - This RL Information is the for the 1st RL IE repetition       CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD		CRITICALITY reject	TYPE DL-CCTrCH-InformationDeleteList-RL	-ReconfPrepTDD
<pre>{ ID id-DCH-beleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-beleteList-RL-ReconfPrepTDD PRESENCE optional }</pre>	-	5	-	
<pre>{ [ D id-DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD PRESENCE optional } { ID id-USGH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD PRESENCE optional },</pre>		5		
PRESENCE optional ]       CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional ]         ( ID id-DSCH-to-Add-TDD       CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD         PRESENCE optional ]       ( ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional ]       ( ID id-USCH-Information-Add       CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD         PRESENCE optional ]       ( ID id-USCH-Information-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD         PRESENCE optional }       ( ID id-RL-Information-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD         PRESENCE optional }       ( ID id-RL-Information-RL-ReconfPrepTDD       CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD         PRESENCE optional }       ( ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }       )         This RL Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information -RL-ReconfPrepTDD       PRESENCE optional }       )         { ID id-HSDSCH-TMD-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }       )       )         { ID id-HSDSCH-MACdPlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }       )       )         { ID id-HSDSCH-MACdPlows-to-Add CRITICALITY reject EX	· · · · · · · · · · · · · · · · · · ·	5	-	- , ,
<pre>{ 1D id-DSCH=to-Add-TDD CRITICALITY reject TYPE DSCH=TDD-Information PRESENCE optional }  { 1D id-DSCH=Information-DeleteList=RL=ReconfPrepTDD CRITICALITY reject TYPE DSCH=Information-DeleteList=RL=ReconfPrepTDD PRESENCE optional }  { 1D id-USCH=Information-ModifyList=RL=ReconfPrepTDD CRITICALITY reject TYPE USCH=Information-ModifyList=RL=ReconfPrepTDD PRESENCE optional }  { 1D id-USCH=Information-DeleteList=RL=ReconfPrepTDD CRITICALITY reject TYPE USCH=Information-ModifyList=RL=ReconfPrepTDD PRESENCE optional }  { 1D id-USCH=Information-DeleteList=RL=ReconfPrepTDD CRITICALITY reject TYPE USCH=Information-RL=ReconfPrepTDD PRESENCE optional }  { 1D id-USCH=Information-RL=ReconfPrepTDD CRITICALITY reject TYPE USCH=Information-RL=ReconfPrepTDD PRESENCE optional }, This RL Information-RL=ReconfPrepTDD CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }, This RL Information-c=Nddify CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=Information-C=Nddify CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=Information-C=Nddify CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=Information-c=Nddify CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOws=to-Add CRITICALITY reject EXTENSION HSDSCH=Information PRESENCE optional }  { 1D id-HSDSCH=NACGPIOw</pre>		CRITICALITY reject	TYPE DSCH-Information-ModifyList-RL-Rec	oniprepiud
<pre>{ ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }  { ID id-USCH-Information-Add CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }  { ID id-USCH-Information-Add CRITICALITY reject TYPE USCH-Information PRESENCE optional }  { ID id-USCH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }  { ID id-USCH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD PRESENCE optional }  { ID id-USCH-Information CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }, This RL Information CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }  { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HLID PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION HLID PRESENCE optional }  { ID id-HSDSCH-RLTD CRITICALITY reject EXTENSION RL-ID PRESEN</pre>		CRITICALITY reject	TYPE DSCH-TDD-Information	PRESENCE optional }
<pre>{ ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD PRESENCE optional }] { ID id-USCH-Information-Add CRITICALITY reject TYPE USCH-Information PRESENCE optional }]     { ID id-USCH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }]     { ID id-USCH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-RL-ReconfPrepTDD PRESENCE optional }]     { ID id-USCH-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepTDD PRESENCE optional },  } RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {         { ID id-SignalLingBearerRequestIndicator CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }]         { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }]         { ID id-HSDSCH-MACGFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }]         { ID id-HSDSCH-MACGFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-MACGFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-MACGFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information PRESENCE optional }]         { ID id-HSDSCH-RLID CRITICALITY reject EXTENSION HSDSCH-MACGFlows-Information P</pre>	ID id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	5		- , , , , , , , , , , , , , , , , , , ,
<pre>{ ID id-USCH-Information-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD PRESENCE optional }} { ID id-RL-Information-RL-ReconfPrepTDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepTDD PRESENCE optional }, This RL Information is the for the 1st RL IE repetition } RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {     { ID id-RL-Information-to-Modify CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }      { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }      { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }      { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }      { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional }      { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }      { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }      { ID id-HSDSCH-MAIT CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }      { ID id-HSDSCH-MAIT CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }      The IE shall be present if HS-PDSCH RL ID IE is present.     { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      { ID id-H</pre>	{    ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD	CRITICALITY reject	TYPE USCH-Information-ModifyList-RL-Rec	onfPrepTDD
PRESENCE optional }        { ID id-RL-Information-RL-ReconfPrepTDD       CRITICALITY reject TYPE RL-Information-RL-ReconfPrepTDD       PRESENCE optional },         This RL Information is the for the lst RL IE repetition            }         RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {         {             ID id-SignallingBearerRequestIndicator       PRESENCE optional }          {             ID id-FignallingBearerRequestIndicator       CRITICALITY reject EXTENSION SignallingBearerRequestIndicator       PRESENCE optional }          {             ID id-HSDSCH-TDD-Information       CRITICALITY reject EXTENSION HSDSCH-TDD-Information       PRESENCE optional }          {             ID id-HSDSCH-MACdFlows-to-Add       CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify       PRESENCE optional }          {             ID id-HSDSCH-MACdFlows-to-Delete       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-tno-Delete       PRESENCE optional }          {             ID id-HSDSCH-RNTI       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete       PRESENCE optional }          {             ID id-HSDSCH-RNTI       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete       PRESENCE optional }          {             ID id-HSDSCH-RNTI       CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete       PRESENCE optional }          {             ID id-HSDSCH-RNTI       CRITICALITY reject EXTENSION RL-ID       PRESENCE optional }  <td>{ ID id-USCH-Information-Add</td> <td>CRITICALITY reject</td> <td>TYPE USCH-Information</td> <td>PRESENCE optional } </td>	{ ID id-USCH-Information-Add	CRITICALITY reject	TYPE USCH-Information	PRESENCE optional }
This RL Information is the for the 1st RL IE repetition  RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }  { ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }  { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }  { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE optional }  This RL Information is the for the 2nd and beyond repetition of RL information,		CRITICALITY reject	TYPE USCH-Information-DeleteList-RL-Rec	onfPrepTDD
<pre>} RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {     [ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }      [ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }      [ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify PRESENCE optional }      [ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }      [ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional }      [ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }      [ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE conditional }      [ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }      [ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      [ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      [ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      [ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }      [ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE     optional }      This RL Information is the for the 2nd and beyond repetition of RL information,</pre>	· · · · · · · · · · · · · · · · · · ·	CRITICALITY reject	TYPE RL-Information-RL-ReconfPrepTDD	<pre>PRESENCE optional },</pre>
<pre>{ ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional }  { ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }  { ID id-HSDSCH-Information-to-Modify CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional }  { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional }  { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-HSDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE optional }  { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE optional }  { This RL Information is the for the 2nd and beyond repetition of RL information,</pre>	}			
<pre>{ ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional } </pre>	{ ID id-SignallingBearerRequestIndicator CRITICALITY { ID id-HSDSCH-TDD-Information CRITICALITY { ID id-HSDSCH-Information-to-Modify CRITICALITY	Y reject EXTENSION & Y reject EXTENSION H Y reject EXTENSION H	HSDSCH-TDD-Information HSDSCH-Information-to-Modify	PRESENCE optional }  PRESENCE optional }
<pre>{ ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }  { ID id-PDSCH-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional }  { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD PRESENCE optional }  This RL Information is the for the 2nd and beyond repetition of RL information,</pre>	{ ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY { ID id-HSDSCH-RNTI CRITICALITY	Y reject EXTENSION H Y reject EXTENSION H	HSDSCH-MACdFlows-to-Delete	PRESENCE optional }
This RL Information is the for the 2nd and beyond repetition of RL information,	{ ID id-HSPDSCH-RL-ID CRITICALITY { ID id-PDSCH-RL-ID CRITICALITY { ID id-multiple-RL-Information-RL-ReconfPrepTDD CRI	Y reject EXTENSION H Y ignore EXTENSION H	RL-ID	PRESENCE optional }
	This RL Information is the for the 2nd and beyond repetition		E-DCH-Information-Reconfig	PRESENCE optional }

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ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional } ID id-E-DCH-768-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig PRESENCE optional ID id-E-DCH-LCR-Information-Reconfig PRESENCE optional CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig ID id-PowerControlGAP PRESENCE optional } CRITICALITY ignore EXTENSION ControlGAP -- Applicable to 1.28Mcps TDD only { ID id-UE-Selected-MBMS-Service-Information EXTENSION UE-Selected-MBMS-Service-Information CRITICALITY ignore PRESENCE optional }, . . . UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID. tFCS TFCS, tFCI-Coding TFCI-Coding, punctureLimit PunctureLimit, ul-DPCH-InformationList UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }| -- Applicable to 1.28Mcps TDD only -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE optional } -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. -- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD ID id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional -- This Information is the for the first RL repetition, TPCinformation for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional }| -- This is the RL ID for the first RL repetition { ID id-multipleRL-ul-DPCH-InformationList CRITICALITY reject EXTENSION MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } | -- This Information is the for the 2nd and beyond RL repetition, { ID id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only, first radio link . . . } UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }} UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= { { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory }

```
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-InformationLCR
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationAddListIE-RL-
ReconfPrepTDD
--Includes the 2nd through the max number of radio link repetitions.
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE
    ul-DPCH-InformationList
                                                UL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                 OPTIONAL,
   ul-DPCH-InformationListLCR
                                                UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    ul-sir-target
                                                UL-SIR
                                                                                                 OPTIONAL.
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    tDD-TPC-UplinkStepSize-LCR
                                                TDD-TPC-UplinkStepSize-LCR
                                                                                                 OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
    rL-ID
                                                RL-ID
                                                                                                 OPTIONAL,
                                                ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
        OPTIONAL.
    . . .
}
MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional },
    . . .
UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
```

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tdd-DPCHOffset TDD-DPCHOffset, uL-Timeslot-Information768 UL-Timeslot768-Information. iE-Extensions ProtocolExtensionContainer { { UL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL. UL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID. tFCS TFCS OPTIONAL, tFCI-Coding TFCI-Coding OPTIONAL, punctureLimit PunctureLimit OPTIONAL, ul-DPCH-InformationAddList UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ul-DPCH-InformationModifyList UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ul-DPCH-InformationDeleteList UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . } UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UL-DPCH-LCR-InformationModify-AddList CRITICALITY reject EXTENSION UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD }| { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE optional -- Applicable to 1.28Mcps TDD only. -- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD { ID id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD only -- This Information is the for the first RL repetition, Step Size information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifvList-RL-ReconfPrepTDD { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition { ID id-multipleRL-ul-DPCH-InformationModifyList CRITICALITY reject EXTENSION MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional }| -- This DPCH Information is the for the 2nd and beyond RL repetition, { ID id-UL-DPCH-768-InformationModify-AddItem CRITICALITY reject EXTENSION UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD

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UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocollE-Single-Container {{ UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                            TYPE UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
        PRESENCE mandatory }
}
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationModify_ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify_ModifyListIEs-RL-ReconfPrepTDD
} }
UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                TYPE UL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
}
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod
                                                                OPTIONAL,
    repetitionLength
                                            RepetitionLength
                                                                OPTIONAL.
    tdd-DPCHOffset
                                            TDD-DPCHOffset
                                                                OPTIONAL,
    uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL,
                                            ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD
                                                            CRITICALITY reject
                                                                                                UL-TimeslotLCR-InformationModify-ModifyList-RL-
                                                                                    EXTENSION
ReconfPrepTDD
                    PRESENCE optional } -- Applicable to 1.28Mcps TDD only
   { ID id-UL-Timeslot768-Information-RL-ReconfPrepTDD
                                                            CRITICALITY reject
                                                                                    EXTENSION
                                                                                                UL-Timeslot768-InformationModify-ModifyList-RL-
ReconfPrepTDD
                    PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
    . . .
```

UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 3.84Mcps TDD only

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UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { timeSlot TimeSlot. midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL. tFCI-Presence TFCI-Presence OPTIONAL. uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL. ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . 3 UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { dPCH-ID DPCH-ID, tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL. iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 1.28Mcps TDD only UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR OPTIONAL, tFCI-Presence TFCI-Presence OPTIONAL, uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR OPTIONAL, ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } iE-Extensions OPTIONAL, . . . UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= · { ID id-PLCCH-Information-RL-ReconfPrepTDDLCR CRITICALITY reject EXTENSION PLCCHinformation PRESENCE optional }, . . . UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR ::= SEQUENCE { dPCH-ID DPCH-ID, tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR OPTIONAL,

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ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE
optional}.
    . . .
UL-Timeslot768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModify-ModifyItem-
RL-ReconfPrepTDD
                    -- Applicable to 7.68Mcps TDD only
UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768
                                                                            OPTIONAL,
                                            TFCI-Presence
    tFCI-Presence
                                                                             OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
                                                                             UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768
                                                                                                                                          OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs }
       OPTIONAL,
    . . .
UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768 ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDD768
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768 ::= SEQUENCE {
    dPCH-TD
                                            DPCH-ID,
                                            TDD-ChannelisationCode768
    tdd-ChannelisationCode768
                                                                             OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs } }
    OPTIONAL,
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD
} }
UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD
```

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UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                        DPCH-ID.
    iE-Extensions
                                        ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL.
    . . .
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-InformationLCR
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }
    OPTIONAL,
    . . .
UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationModifyListIE-RL-
ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-DPCH-InformationAddList
                                                UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                      OPTIONAL,
    ul-DPCH-InformationModifyList
                                                UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                      OPTIONAL,
    ul-DPCH-InformationDeleteList
                                                UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                      OPTIONAL,
   ul-DPCH-InformationAddListLCR
                                                UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                      OPTIONAL,
    ul-sir-target
                                                UL-SIR
                                                                                                                     OPTIONAL.
    tDD-TPC-UplinkStepSize-LCR
                                                TDD-TPC-UplinkStepSize-LCR
                                                                                                                      OPTIONAL,
                                                RL-ID
    rL-ID
                                                                                                                      OPTIONAL,
    -- This DPCH Information is the for the 2nd and beyond RL repetitions,
    iE-Extensions
                                                ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs }
        OPTIONAL,
. . .
MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-768-InformationModify-AddList CRITICALITY reject
                                                                             EXTENSION UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD
    PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
    . . .
UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
                                            TDD-DPCHOffset,
    tdd-DPCHOffset
```

uL-Timeslot-Information768 UL-Timeslot768-Information. iE-Extensions ProtocolExtensionContainer { { UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL. . . . UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID. iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL. . . . UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS, tFCI-Coding TFCI-Coding, punctureLimit PunctureLimit, cCTrCH-TPCList CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL. dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional } -- This DL step size is the for the first RL repetition, DL step size information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD PRESENCE optional } | CRITICALITY ignore EXTENSION DL-Power -- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD PRESENCE optional } | CRITICALITY ignore EXTENSION DL-Power

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-- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition { ID id-multipleRL-dl-DPCH-InformationList CRITICALITY reject EXTENSION MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } -- This DPCH Information is the for the 2nd and beyond RL repetition, { ID id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only . . . CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEOUENCE { cCTrCH-ID CCTrCH-ID. ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . 3 CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocollE-Single-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }} DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= { { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory } } DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE RepetitionPeriod, repetitionPeriod RepetitionLength, repetitionLength tdd-DPCHOffset TDD-DPCHOffset, dL-Timeslot-Information DL-Timeslot-Information, iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE { repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, tdd-DPCHOffset TDD-DPCHOffset, dL-Timeslot-InformationLCR DL-TimeslotLCR-Information, iE-Extensions ProtocolExtensionContainer { { DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . .

DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD --Includes the 2nd through the max number of radio link information repetitions. MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE { dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL, dl-DPCH-InformationListLCR DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL, cCTrCH-Initial-DL-Power OPTIONAL, DL-Power tDD-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize OPTIONAL. cCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD DL-Power OPTIONAL. cCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD DL-Power OPTIONAL, rL-ID RL-TD OPTIONAL, ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { [ ID id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only . . . DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE { repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, TDD-DPCHOffset, tdd-DPCHOffset dL-Timeslot-Information768 DL-Timeslot768-Information, ProtocolExtensionContainer { { DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, t FCS TECS OPTIONAL, OPTIONAL. tFCI-Coding TFCI-Coding punctureLimit PunctureLimit OPTIONAL, cCTrCH-TPCList CCTrCH-TPCModifvList-RL-ReconfPrepTDD OPTIONAL, dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL, -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD dl-DPCH-InformationDeleteList DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL,

DL-DPCH-LCR-InformationModify-

-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD

```
iE-Extensions
OPTIONAL,
...
```

ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }

```
}
```

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION AddList-RL-ReconfPrepTDD PRESENCE optional }| -- Applicable to 1.28Mcps TDD only

-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD

{ ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional}| -- This Step Size Information is the for the first RL repetition, step size information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD

{ ID id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }| -- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD

{ ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }| -- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD

{ ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional }| -- This is the RL ID for the first RL repetition

{ ID id-multipleRL-dl-DPCH-InformationModifyList CRITICALITY reject EXTENSION MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional }|

-- This DPCH Information is the for the 2nd and beyond RL repetitions,

{ ID id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only first radio link DL-DPCH-768-InformationModify-

} ...

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD cCTrCH-ID iE-Extensions	::= SEQUENCE { CCTrCH-ID, ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs} }	OPTIONAL,
•••		
}		

```
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

. . . 1

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }} -- Applicable to 3.84Mcps TDD only

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {

{ ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
PRESENCE mandatory }
}

```
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
```

}

tdd-DPCHOffset dL-Timeslot-Information iE-Extensions OPTIONAL,	TDD-DPCHOffset, DL-Timeslot-Information, ProtocolExtensionContaine:	,						
}								
<pre>DL-DPCH-InformationModify-AddItem-RL</pre>	-ReconfPrepTDD-ExtIEs NBAP-PROTO	COL-EXTENSION ::= {						
<pre>DL-DPCH-InformationModify-ModifyList }}</pre>	-RL-ReconfPrepTDD ::= ProtocolIE-3	Single-Container {{ DL-DP	CH-InformationModify-ModifyListIEs-RL-	-ReconfPrepTDD				
DL-DPCH-InformationModify-ModifyList { ID id-DL-DPCH-InformationModif ReconfPrepTDD PRESENCE mandato }	y-ModifyListIE-RL-ReconfPrepTDD		TYPE DL-DPCH-InformationModify-Modif	TyItem-RL-				
DL-DPCH-InformationModify-ModifyItem repetitionPeriod repetitionLength tdd-DPCHOffset dL-Timeslot-InformationAddModify iE-Extensions OPTIONAL,	RepetitionPeriod RepetitionLength TDD-DPCHOffset -ModifyList-RL-ReconfPrepTDD		nModify-ModifyList-RL-ReconfPrepTDD Modify-ModifyItem-RL-ReconfPrepTDD-Ext	OPTIONAL, LIES} }				
}								
LCR-InformationModify-ModifyList-RL-	ionModify-ModifyList-RL-ReconfPrep ReconfPrepTDD PRESENCE optic ionModify-ModifyList-RL-ReconfPrep	pTDD CRITICALITY reject onal }  pTDD CRITICALITY reject	EXTENSION	DL-Timeslot- DL-Timeslot-				
}								
DL-Timeslot-InformationModify-Modify ReconfPrepTDD	List-RL-ReconfPrepTDD ::= SEQUENC	E (SIZE (1maxNrOfDLTSs)	) OF DL-Timeslot-InformationModify-Mod	lifyItem-RL-				
DL-Timeslot-InformationModify-Modify timeSlot midambleShiftAndBurstType tFCI-Presence dL-Code-InformationModify-Modify iE-Extensions OPTIONAL,	TimeSlot, MidambleShiftAndBurstType TFCI-Presence List-RL-ReconfPrepTDD	OPTIONAL, OPTIONAL, DL-Code-InformationMod	ify-ModifyList-RL-ReconfPrepTDD tionModify-ModifyItem-RL-ReconfPrepTDI	OPTIONAL, D-ExtIEs} }				
}								
DL-Timeslot-InformationModify-Modify	Item-RL-ReconfPrepTDD-ExtIEs NBAP	-PROTOCOL-EXTENSION ::= {						

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DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                         ::= SEQUENCE
    dpch-td
                                            DPCH-ID.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfPrepTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                                 ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
                                            TFCI-Presence
    tFCI-Presence
                                                                    OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                             DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs }
        OPTIONAL.
    . . .
DL-Timeslot-LCR-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                        PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power
                                                                                                                        PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF DL-Code-LCR-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEOUENCE {
    dPCH-ID
                                            DPCH-ID.
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR
                                                                            OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY
                                                                                    reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE
optional},
    . . .
```

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DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                                 ::= SEQUENCE {
    timeSlot
                                            TimeSlot.
                                            MidambleShiftAndBurstType
    midambleShiftAndBurstType
                                                                                 OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                                 OPTIONAL,
    dL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            DL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD
    OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-768-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
       OPTIONAL,
    . . .
DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF DL-Code-768-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEOUENCE {
    dPCH-ID768
                                            DPCH-ID768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768
                                                                            OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-768-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD
} }
DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                TYPE DL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
J
DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                                DPCH-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod.
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset.
    dL-Timeslot-InformationLCR
                                            DL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }
    OPTIONAL,
    . . .
DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationModifyListIE-RL-
ReconfPrepTDD
    --Includes the 2nd through the max number of radio link information repetitions.
MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
    dl-DPCH-InformationAddList
                                                                     DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                              OPTIONAL,
    dl-DPCH-InformationModifyList
                                                                     DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                              OPTIONAL,
    dl-DPCH-InformationDeleteList
                                                                     DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                              OPTIONAL,
    dl-DPCH-InformationAddListLCR
                                                                     DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                              OPTIONAL,
    tDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD
                                                                     TDD-TPC-DownlinkStepSize
                                                                                                                              OPTIONAL,
    cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                     DL-Power
                                                                                                                              OPTIONAL,
    cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
                                                                     DL-Power
                                                                                                                              OPTIONAL,
    rL-ID
                                                                     RL-ID
                                                                                                                              OPTIONAL,
                                                                     ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationModifyListIE-RL-
    iE-Extensions
ReconfPrepTDD-ExtIEs} }
                            OPTIONAL,
    . . .
MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                             EXTENSION
                                                                                                                     DL-DPCH-768-InformationModify-
AddList-RL-ReconfPrepTDD
                                PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
    . . .
DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
                                            DL-Timeslot768-Information,
    dL-Timeslot-Information768
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }
    OPTIONAL,
    . . .
DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
```

```
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID.
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL.
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                                DCH-ID,
                                                ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                                DSCH-ID,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                             OPTIONAL,
    -- DL CCTrCH in which the DSCH is mapped
    transportFormatSet
                                                TransportFormatSet
                                                                             OPTIONAL,
    allocationRetentionPriority
                                                AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                FrameHandlingPriority
                                                                             OPTIONAL,
                                                TOAWS
    toAWS
                                                                             OPTIONAL,
    toAWE
                                                TOAWE
                                                                             OPTIONAL.
    transportBearerRequestIndicator
                                                TransportBearerRequestIndicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                        CRITICALITY ignore EXTENSION BindingID
                                                                                                 PRESENCE optional
                                                                                                                     }|
    -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                        CRITICALITY ignore EXTENSION TransportLayerAddress
                                                                                                 PRESENCE optional
                                                                                                                     }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                        CRITICALITY ignore EXTENSION TnlQos
                                                                                                 PRESENCE optional },
    . . .
}
DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE
    dSCH-ID
                                                DSCH-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
```

```
. . .
}
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
3
USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                                USCH-ID,
    transportFormatSet
                                                TransportFormatSet
                                                                             OPTIONAL,
    allocationRetentionPriority
                                                AllocationRetentionPriority OPTIONAL,
    cCTrCH-ID
                                                CCTrCH-ID
                                                                             OPTIONAL.
                                                                                        -- UL CCTrCH in which the USCH is mapped
    transportBearerRequestIndicator
                                                TransportBearerRequestIndicator,
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                            CRITICALITY ignore
                                                                     EXTENSION BindingID
                                                                                                                      PRESENCE optional } |
    -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                            CRITICALITY ignore
                                                                     EXTENSION TransportLayerAddress
                                                                                                                      PRESENCE optional } |
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                            CRITICALITY ignore
                                                                     EXTENSION Thloos
                                                                                                                      PRESENCE optional },
    . . .
3
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    USCH-TD
                                                USCH-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MultipleRL-Information-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.
RL-Information-RL-ReconfPrepTDD ::= SEOUENCE {
    rL-TD
                                                RL-ID,
                                                DL-Power
    maxDL-Power
                                                                     OPTIONAL,
   minDL-Power
                                                DL-Power
                                                                     OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
}
RL-Information-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-InitDL-Power
                                                        CRITICALITY ignore EXTENSION DL-Power
                                                                                                                           PRESENCE optional }|
```

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ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } | ID id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD { ID id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoLCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD only { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional }, -- Applicable to 1.28Mcps TDD when using multiple frequencies . . . - --- RADIO LINK RECONFIGURATION READY RadioLinkReconfigurationReady ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReady-IEs}}, {{RadioLinkReconfigurationReady-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | ID id-RL-InformationResponseList-RL-ReconfReady CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReady PRESENCE optional }| ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-TargetCommunicationControlPortID CRITICALITY ignore EXTENSION CommunicationControlPortID PRESENCE optional } { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional } -- FDD only EXTENSION HSDSCH-TDD-Information-Response { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore PRESENCE optional } -- TDD only { ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional } CRITICALITY ignore PRESENCE optional ID id-MAChs-ResetIndicator EXTENSION MAChs-ResetIndicator ID id-Fast-Reconfiguration-Permission CRITICALITY ignore EXTENSION Fast-Reconfiguration-Permission PRESENCE optional } ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Information-Response PRESENCE optional }, . . . RL-InformationResponseList-RL-ReconfReadv ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-ReconfReady } } RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-ReconfReady CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReady PRESENCE mandatory } } RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE { rL-ID RL-ID, dCH-InformationResponseList-RL-ReconfReady DCH-InformationResponseList-RL-ReconfReady OPTIONAL,

```
dSCH-InformationResponseList-RL-ReconfReady
                                                 DSCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
    uSCH-InformationResponseList-RL-ReconfReady
                                                 USCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
    not-Used-tFCI2-BearerInformationResponse
                                                                                           OPTIONAL.
                                                 NULL
    iE-Extensions
                                                 ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs } }
   OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator
                                                     CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                            PRESENCE optional
}|
     ID id-E-DCH-RL-Set-ID
                                                     CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                            PRESENCE optional
}|
    ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                            PRESENCE optional
}|
     ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                            PRESENCE optional
},
    . . .
DCH-InformationResponseList-RL-ReconfReady ::= ProtocollE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                        TYPE DCH-InformationResponse
                                                                                        PRESENCE mandatory }
DSCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
     ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                       PRESENCE mandatory }
USCH-InformationResponseList-RL-ReconfReady ::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }}
USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
     ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                       PRESENCE mandatory
      RADIO LINK RECONFIGURATION FAILURE
- -
  RadioLinkReconfigurationFailure ::= SEOUENCE
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkReconfigurationFailure-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkReconfigurationFailure-Extensions}}
                                                                                                                 OPTIONAL,
    . . .
RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                             CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                 PRESENCE mandatory
     ID id-CauseLevel-RL-ReconfFailure
                                             CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure
                                                                                                                 PRESENCE mandatory
     ID id-CriticalityDiagnostics
                                             CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
```

```
. . .
}
RadioLinkReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CauseLevel-RL-ReconfFailure ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-ReconfFailure,
                       RLSpecificCauseList-RL-ReconfFailure,
    rLSpecificCause
    . . .
}
GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
    cause
                                                 Cause.
    iE-Extensions
                                                 ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs } }
                                                                                                                                      OPTIONAL,
    . . .
GeneralCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
    rL-ReconfigurationFailureList-RL-ReconfFailure
                                                         RL-ReconfigurationFailureList-RL-ReconfFailure
                                                                                                                         OPTIONAL,
    iE-Extensions
                                                         ProtocolExtensionContainer { { RLSpecificCauseItem-RL-ReconfFailure-ExtIEs } }
    OPTIONAL,
    . . .
}
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-
ReconfigurationFailureItemIE-RL-ReconfFailure} }
RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailureItem-RL-ReconfFailure CRITICALITY ignore TYPE RL-ReconfigurationFailureItem-RL-ReconfFailure PRESENCE
mandatory }
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
    rL-TD
                                                 RL-ID,
    cause
                                                 Cause,
                                                 ProtocolExtensionContainer { { RL-ReconfigurationFailureItem-RL-ReconfFailureExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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\_ \_ -- RADIO LINK RECONFIGURATION COMMIT - -RadioLinkReconfigurationCommit ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationCommit-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory } | { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE optional }, -- FDD only . . . RadioLinkReconfigurationCommit-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-Fast-Reconfiguration-Mode CRITICALITY reject EXTENSION Fast-Reconfiguration-Mode PRESENCE optional }, --FDD only . . . - --- RADIO LINK RECONFIGURATION CANCEL - -RadioLinkReconfigurationCancel ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationCancel-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationCancel-IEs NBAP-PROTOCOL-IES ::= { { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }, . . . } RadioLinkReconfigurationCancel-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\*\*\*\*\*\*\* - --- RADIO LINK RECONFIGURATION REQUEST FDD \_ \_ RadioLinkReconfigurationRequestFDD ::= SEQUENCE { {{RadioLinkReconfigurationRequestFDD-IEs}}, protocolIEs ProtocolIE-Container

ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}} protocolExtensions OPTIONAL, RadioLinkReconfigurationReguestFDD-IEs NBAP-PROTOCOL-IES ::= { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }| ID id-UL-DPCH-Information-RL-ReconfRgstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional ID id-DL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional ID id-FDD-DCHs-to-Modify CRITICALITY reject TYPE FDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-FDD CRITICALITY reject TYPE DCH-FDD-Information PRESENCE optional ID id-DCH-DeleteList-RL-ReconfRqstFDD PRESENCE optional CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD ID id-RL-InformationList-RL-ReconfRqstFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfRgstFDD PRESENCE optional } ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }, RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-SignallingBearerReguestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional } ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised PRESENCE optional }| ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional } ID id-HSDSCH-MACdFlows-to-Delete PRESENCE optional } CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE conditional }| -- The IE shall be present if HS-PDSCH RL ID IE is present. ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional PRESENCE optional ID id-E-DPCH-Information-RL-ReconfRgstFDD CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfRgstFDD PRESENCE optional ID id-E-DCH-FDD-Information CRITICALITY reject EXTENSION E-DCH-FDD-Information PRESENCE optional ID id-E-DCH-FDD-Information-to-Modify CRITICALITY reject EXTENSION E-DCH-FDD-Information-to-Modify ID id-E-DCH-MACdFlows-to-Add CRITICALITY reject EXTENSION E-DCH-MACdFlows-Information PRESENCE optional ID id-E-DCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete PRESENCE optional ID id-Serving-E-DCH-RL-ID CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID PRESENCE optional ID id-CPC-Information CRITICALITY reject EXTENSION CPC-Information PRESENCE optional }, . . . UL-DPCH-Information-RL-ReconfRgstFDD ::= SEQUENCE ul-TFCS TFCS OPTIONAL, ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } } iE-Extensions OPTIONAL, UL-DPCH-Information-RL-ReconfRostFDD-Extles NBAP-PROTOCOL-EXTENSION ::= · { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation PRESENCE optional }. . . . } DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE { dl-TFCS TFCS OPTIONAL, tFCI-SignallingMode TFCI-SignallingMode OPTIONAL, limitedPowerIncrease LimitedPowerIncrease OPTIONAL, iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL,

. . . DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 3 DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE { dCH-ID DCH-ID, ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}} RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationItem-RL-ReconfRqstFDD CRITICALITY reject TYPE RL-InformationItem-RL-ReconfRgstFDD PRESENCE mandatory } RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE rL-ID RL-ID, maxDL-Power DL-Power OPTIONAL, minDL-Power DL-Power OPTIONAL, dl-CodeInformation FDD-DL-CodeInformation OPTIONAL, -- The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2". ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationItem-RL-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ID id-DLReferencePower PRESENCE optional } CRITICALITY ignore EXTENSION DL-Power ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } ID id-E-DCH-RL-Indication CRITICALITY reject EXTENSION E-DCH-RL-Indication PRESENCE optional } ID id-RL-Specific-E-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info PRESENCE optional } ID id-F-DPCH-SlotFormat CRITICALITY reject EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . E-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE { Max-Set-E-DPDCHs maxSet-E-DPDCHs OPTIONAL. ul-PunctureLimit PunctureLimit OPTIONAL, e-TFCS-Information E-TFCS-Information OPTIONAL, e-TTI E-TTI OPTIONAL, e-DPCCH-PO E-DPCCH-PO OPTIONAL, e-RGCH-2-IndexStepThreshold E-RGCH-2-IndexStepThreshold OPTIONAL, E-RGCH-3-IndexStepThreshold e-RGCH-3-IndexStepThreshold OPTIONAL,

hARO-Info-for-E-DCH HARO-Info-for-E-DCH OPTIONAL, hSDSCH-Configured-Indicator HSDSCH-Configured-Indicator OPTIONAL. iE-Extensions ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfRgstFDD-ExtIEs } } OPTIONAL . . . E-DPCH-Information-RL-ReconfRqstFDD-ExtlEs NBAP-PROTOCOL-EXTENSION ::= { . . . -- RADIO LINK RECONFIGURATION REQUEST TDD \_ \_ RadioLinkReconfigurationReguestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReguestTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }| { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional } { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional } { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD PRESENCE optional } { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD PRESENCE optional } { ID id-TDD-DCHs-to-Modify CRITICALITY reject TYPE TDD-DCHs-to-Modify PRESENCE optional } ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DCH-DeleteList-RL-ReconfRqstTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstTDD PRESENCE optional } ID id-RL-Information-RL-ReconfRqstTDD CRITICALITY reject TYPE RL-Information-RL-ReconfRqstTDD PRESENCE optional }, -- This RL-Information-RL-ReconfRgstTDD is the first RL information repetition in the RL-Information List. Repetition 2 and on, should be defined in Multiple-RL-Information-RL-ReconfRgstTDD, . . . 3 RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator PRESENCE optional } ID id-multiple-RL-Information-RL-ReconfRostTDD CRITICALITY reject EXTENSION Multiple-RL-Information-RL-ReconfRgstTDD PRESENCE optional } --Includes the 2nd through the max number of radio link information repetitions. ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }| ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised PRESENCE optional }| ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information PRESENCE optional } ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete PRESENCE optional } ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE conditional } -- The IE shall be present if HS-PDSCH RL ID IE is present.

```
ID id-HSPDSCH-RL-ID
                                                        CRITICALITY reject EXTENSION RL-ID
                                                                                                                          PRESENCE optional }|
     ID id-E-DCH-Information-Reconfig
                                                        CRITICALITY reject EXTENSION E-DCH-Information-Reconfig
                                                                                                                          PRESENCE optional }
     ID id-E-DCH-Serving-RL-ID
                                                        CRITICALITY reject EXTENSION RL-ID
                                                                                                                          PRESENCE optional
     ID id-E-DCH-768-Information-Reconfig
                                                        CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig
                                                                                                                          PRESENCE optional }
     ID id-E-DCH-LCR-Information-Reconfig
                                                        CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig
                                                                                                                          PRESENCE optional }
    { ID id-PowerControlGAP
                                                        CRITICALITY ignore EXTENSION ControlGAP
                                                                                                                          PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
    { ID id-UE-Selected-MBMS-Service-Information
                                                            CRITICALITY ignore
                                                                                    EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional },
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationModifvItemIE-RL-ReconfRostTDD}}
UL-CCTrCH-InformationModifyItemIE-RL-ReconfRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD
    PRESENCE mandatory }
}
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
    t FCS
                                                    TECS
                                                                    OPTIONAL,
    punctureLimit
                                                    PunctureLimit
                                                                    OPTIONAL,
                                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                CRITICALITY reject
    { ID id-UL-SIRTarget
                                                       EXTENSION UL-SIR
                                                                                PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
}
UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::=
    { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                        CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
        PRESENCE mandatory }
}
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                    CCTrCH-ID,
                                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD}}

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD PRESENCE mandatory } } DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS OPTIONAL, punctureLimit PunctureLimit OPTIONAL, iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL. . . . DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-DPCH-LCR-InformationModify-ModifyList-RL-PRESENCE optional } -- Applicable to 1.28Mcps TDD only ReconfRastTDD -- This DPCH LCR Information is the for the first RL repetition, DPCH LCR information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD. { ID id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD. { ID id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRgstTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }| -- This power Information is the for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD. { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition. { ID id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRgstTDD CRITICALITY reject EXTENSION MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional }, -- This CCTrCH Information is the for the 2nd and beyond RL repetitions. . . . MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-CCTrCH-InformationModifyListIE-RL-ReconfRqstTDD --Includes the 2nd through the max number of radio link information repetitions. MultipleRL-DL-CCTrCH-InformationModifyListIE-RL-ReconfRqstTDD ::= SEQUENCE { dl-DPCH-LCR-InformationModifyList DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD OPTIONAL, cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD DL-Power OPTIONAL, cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD DL-Power OPTIONAL, RL-ID rL-ID OPTIONAL, . . . DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE dL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify\_ModifyList-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL, . . .

```
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfRqstTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD
                                                                ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
   maxPowerLCR
                                            DL-Power
                                                        OPTIONAL,
   minPowerLCR
                                            DL-Power
                                                        OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRgstTDD-ExtIEs } }
       OPTIONAL,
    . . .
3
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-
InformationDeleteItemIE-RL-ReconfRqstTDD}}
DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
                                                                     CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD
    PRESENCE mandatory }
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID,
                                                     ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-TD
                                                     DCH-ID,
                                                     ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRastTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Multiple-RL-Information-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfRqstTDD
```

<sup>--</sup>Includes the 2nd through the max number of radio link information repetitions.

RL-Information-RL-ReconfRgstTDD ::= SEQUENCE rL-ID RL-ID. maxDL-Power DL-Power OPTIONAL, minDL-Power DL-Power OPTIONAL. ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRgstTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ID id-RL-Specific-DCH-Info EXTENSION RL-Specific-DCH-Info CRITICALITY ignore PRESENCE optional } { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional }, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD . . . \_ \_ RADIO LINK RECONFIGURATION RESPONSE RadioLinkReconfigurationResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationResponse-IEs}}, {{RadioLinkReconfigurationResponse-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . 3 RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID CRNC-CommunicationContextID { ID CRITICALITY ignore TYPE PRESENCE mandatory } { ID id-RL-InformationResponseList-RL-ReconfRsp TYPE CRITICALITY ignore RL-InformationResponseList-RL-ReconfRsp PRESENCE optional id-CriticalityDiaqnostics { ID CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= ID id-TargetCommunicationControlPortID CRITICALITY ignore EXTENSION CommunicationControlPortID PRESENCE optional } { ID id-HSDSCH-FDD-Information-Response PRESENCE optional } CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response -- FDD only { ID id-HSDSCH-TDD-Information-Response PRESENCE optional }| CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response -- TDD only ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional } ID id-MAChs-ResetIndicator CRITICALITY ignore EXTENSION MAChs-ResetIndicator PRESENCE optional }| ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Information-Response PRESENCE optional }, . . .

}

RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-ReconfRsp}}

```
RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponseItem-RL-ReconfRsp CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRsp PRESENCE mandatory }
RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
    rL-ID
                                             RL-ID,
    dCH-InformationResponseList-RL-ReconfRsp
                                             DCH-InformationResponseList-RL-ReconfRsp
                                                                                                                               OPTIONAL,
   iE-Extensions
                                             ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-DL-PowerBalancing-UpdatedIndicator
                                                     CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator
                                                                                                                            PRESENCE optional
}|
    -- FDD only
    { ID id-E-DCH-RL-Set-ID
                                                     CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                            PRESENCE optional
}|
     ID id-E-DCH-FDD-DL-Control-Channel-Information
                                                     CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information
                                                                                                                            PRESENCE optional
}|
    ID id-E-DCH-FDD-Information-Response
                                                     CRITICALITY iqnore EXTENSION E-DCH-FDD-Information-Response
                                                                                                                            PRESENCE optional
},
    . . .
DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }}
DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
    ID id-DCH-InformationResponse CRITICALITY ignore
                                                         TYPE DCH-InformationResponse
                                                                                       PRESENCE mandatory }
l
      _ _
-- RADIO LINK DELETION REQUEST
RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                      {{RadioLinkDeletionRequest-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{RadioLinkDeletionRequest-Extensions}}
                                                                                                              OPTIONAL,
RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID
           id-NodeB-CommunicationContextID
                                                         CRITICALITY reject TYPE NodeB-CommunicationContextID
                                                                                                                       PRESENCE mandatory
     ΤD
           id-CRNC-CommunicationContextID
                                                         CRITICALITY reject TYPE CRNC-CommunicationContextID
                                                                                                                      PRESENCE mandatory } |
     ID
           id-RL-informationList-RL-DeletionRqst
                                                         CRITICALITY notify TYPE RL-informationList-RL-DeletionRqst
                                                                                                                      PRESENCE mandatory },
    . . .
RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-informationItemIE-RL-DeletionRqst}} RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= { { ID id-RL-informationItem-RL-DeletionRqst CRITICALITY notify TYPE RL-informationItem-RL-DeletionRgst PRESENCE mandatory } } RL-informationItem-RL-DeletionRqst ::= SEQUENCE { rL-TD RL-ID, ProtocolExtensionContainer { { RL-informationItem-RL-DeletionRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-informationItem-RL-DeletionRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . - --- RADIO LINK DELETION RESPONSE - -RadioLinkDeletionResponse ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkDeletionResponse-IEs}}, ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}} OPTIONAL, protocolExtensions . . . RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID ΤD CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }| { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { - --- DL POWER CONTROL REQUEST FDD \_ \_ DL-PowerControlRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{DL-PowerControlRequest-IEs}}, protocolExtensions ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}} OPTIONAL, . . . } DL-PowerControlRequest-IEs NBAP-PROTOCOL-IES ::= { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } { ID id-PowerAdjustmentType CRITICALITY ignore TYPE PowerAdjustmentType PRESENCE mandatory } |

```
PRESENCE conditional }|
   { ID id-DLReferencePower
                                              CRITICALITY ignore TYPE DL-Power
    -- This IE shall be present if the Adjustment Type IE is set to 'Common'
     ID id-InnerLoopDLPCStatus
                                              CRITICALITY ignore TYPE InnerLoopDLPCStatus
                                                                                                                  PRESENCE optional }
    { ID id-DLReferencePowerList-DL-PC-Rqst
                                              CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rgst
                                                                                                                  PRESENCE conditional }|
    -- This IE shall be present if the Adjustment Type IE is set to 'Individual'
                                                                                                                  PRESENCE conditional }|
    { ID id-MaxAdjustmentStep
                                              CRITICALITY ignore TYPE MaxAdjustmentStep
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
   { ID id-AdjustmentPeriod
                                              CRITICALITY ignore TYPE AdjustmentPeriod
                                                                                                                  PRESENCE conditional }|
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
                                              CRITICALITY ignore TYPE ScaledAdjustmentRatio
                                                                                                                  PRESENCE conditional }.
   { ID id-AdjustmentRatio
    -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
    . . .
DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DL-ReferencePowerInformationList-DL-PC-Rgst ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{DL-
ReferencePowerInformationItemIE-DL-PC-Rgst } }
DL-ReferencePowerInformationItemIE-DL-PC-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-DL-ReferencePowerInformationItem-DL-PC-Rqst
                                                             CRITICALITY ignore
                                                                                        TYPE DL-ReferencePowerInformationItem-DL-PC-Rqst
    PRESENCE mandatorv }
}
DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
   rL-ID
                                          RL-ID,
   dl-ReferencePower
                                          DL-Power,
   iE-Extensions
                                          ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs } }
                                                                                                                                OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-DL-PC-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ******
_ _
-- DL POWER TIMESLOT CONTROL REQUEST TDD
  DL-PowerTimeslotControlRequest ::= SEQUENCE {
                          ProtocolIE-Container
                                                      { {DL-PowerTimeslotControlRequest-IEs } },
   protocolIEs
                                                     {{DL-PowerTimeslotControlRequest-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                                  OPTIONAL,
    . . .
}
DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
     ID id-NodeB-CommunicationContextID
                                                                                                                  PRESENCE mandatory } |
                                          CRITICALITY ignore
                                                                 TYPE NodeB-CommunicationContextID
     ID id-TimeslotISCPInfo
                                          CRITICALITY ignore
                                                                 TYPE DL-TimeslotISCPInfo
                                                                                                                  PRESENCE optional },
    -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
```

DL-PowerTimeslotControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-TimeslotISCPInfoList-LCR-DL-PC-RgstTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoLCR PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD { ID id-PrimCCPCH-RSCP-DL-PC-RgstTDD CRITICALITY ignore PRESENCE optional } | EXTENSION PrimaryCCPCH-RSCP { ID id-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore PRESENCE optional }, EXTENSION PrimaryCCPCH-RSCP-Delta . . . -- DEDICATED MEASUREMENT INITIATION REQUEST - -\*\*\*\*\*\*\*\*\*\*\*\*\* DedicatedMeasurementInitiationReguest ::= SEQUENCE protocolIEs ProtocolIE-Container {{DedicatedMeasurementInitiationReguest-IEs}}, ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}} protocolExtensions OPTIONAL, . . . DedicatedMeasurementInitiationRequest-IES NBAP-PROTOCOL-IES ::= { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY reject TYPE DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory ID id-DedicatedMeasurementType CRITICALITY reject TYPE DedicatedMeasurementType PRESENCE mandatory ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient PRESENCE optional } ID id-ReportCharacteristics CRITICALITY reject TYPE ReportCharacteristics PRESENCE mandatory ID id-CFNReportingIndicator CRITICALITY reject TYPE FNReportingIndicator PRESENCE mandatory ID id-CFN CRITICALITY reject TYPE CFN PRESENCE optional } , . . . DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-NumberOfReportedCellPortions CRITICALITY reject EXTENSION NumberOfReportedCellPortions PRESENCE conditional } | -- The IE shall be present if the Dedicated Measurement Type IE is set to 'Best Cell Portions', FDD only. ID id-MeasurementRecoveryBehavior CRITICALITY ignore EXTENSION MeasurementRecoveryBehavior PRESENCE optional } | ID id-AlternativeFormatReportingIndicator CRITICALITY ignore EXTENSION AlternativeFormatReportingIndicator PRESENCE optional }, . . . 3 DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE { r٦ RL-DM-Rqst, rLS RL-Set-DM-Rast, -- for FDD only all-RL AllRL-DM-Rgst, all-RLS AllRL-Set-DM-Rgst, -- for FDD only . . . RL-DM-Rqst ::= SEQUENCE { rL-InformationList RL-InformationList-DM-Rqst, iE-Extensions ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs } } OPTIONAL,

```
}
RLILEM-DM-RGSL-EXTIES NBAP-PROTOCOL-EXTENSION ::= {
}
RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rqst }}
RL-InformationItemIE-DM-Rqst NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst CRITICALITY reject TYPE RL-InformationItem-DM-Rqst
                                                                                                 PRESENCE mandatory }
RL-InformationItem-DM-Rgst ::= SEQUENCE {
        rL-ID
                                        RL-ID.
       dPCH-ID
                                        DPCH-ID
                                                            OPTIONAL, -- for TDD only
       iE-Extensions
                                        ProtocolExtensionContainer { { RL-InformationItem-DM-Rgst-ExtIEs } }
                                                                                                                       OPTIONAL,
        . . .
RL-InformationItem-DM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PUSCH-Info-DM-Rqst
                                    CRITICALITY reject
                                                                    EXTENSION
                                                                               PUSCH-Info-DM-Rqst
                                                                                                                        PRESENCE optional } |
    -- TDD only
   { ID id-HSSICH-Info-DM-Rqst
                                    CRITICALITY reject
                                                                    EXTENSION
                                                                                HSSICH-Info-DM-Rqst
                                                                                                                        PRESENCE optional } |
    -- TDD only
                                                                                                                        PRESENCE optional } |
   { ID id-DPCH-ID768-DM-Rqst
                                    CRITICALITY reject
                                                                    EXTENSION
                                                                                DPCH-ID768
    -- 7.68Mcps TDD only
    { ID id-HSSICH-InfoExt-DM-Rgst CRITICALITY reject
                                                                                                                        PRESENCE optional },
                                                                    EXTENSION HSSICH-InfoExt-DM-Rgst
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
    . . .
J
PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID
HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID
HSSICH-InfoExt-DM-Rqst::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF Extended-HS-SICH-ID
-- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
RL-Set-DM-Rqst ::= SEQUENCE {
    rL-Set-InformationList-DM-Rgst
                                            RL-Set-InformationList-DM-Rqst,
                                            ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
RL-SetItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-DM-Rqst
                                                ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rqst
RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-Set-ID
                                    RL-Set-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs } } OPTIONAL,
```

```
}
RL-Set-InformationItem-DM-Rgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
AllRL-DM-Rgst ::= NULL
AllRL-Set-DM-Rqst ::= NULL
- -
-- DEDICATED MEASUREMENT INITIATION RESPONSE
- -
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                     {{DedicatedMeasurementInitiationResponse-IEs}},
                          ProtocolExtensionContainer
                                                    {{DedicatedMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
    . . .
DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                               PRESENCE mandatory
     ID id-MeasurementID
                                                 CRITICALITY ignore TYPE MeasurementID
                                                                                                               PRESENCE mandatory }
     ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp
                                                                                                               PRESENCE optional } |
     ID id-CriticalityDiagnostics
                                                 CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                               PRESENCE optional },
    . . .
}
DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MeasurementRecoverySupportIndicator
                                                CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator
                                                                                                                  PRESENCE optional },
   . . .
}
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
   rL
                              RL-DM-Rsp,
                              RL-Set-DM-Rsp, -- for FDD only
   rLS
   all-RL
                              RL-DM-Rsp,
   all-RLS
                              RL-Set-DM-Rsp, -- for FDD only
    . . .
RL-DM-Rsp ::= SEQUENCE {
   rL-InformationList-DM-Rsp
                                     RL-InformationList-DM-Rsp.
                                     ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } }
   iE-Extensions
                                                                                                             OPTIONAL,
    . . .
}
RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rsp }}
```

RL-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationItem-DM-Rsp CRITICALITY ignore TYPE RL-InformationItem-DM-Rsp PRESENCE mandatory } RL-InformationItem-DM-Rsp ::= SEQUENCE { rL-TD RL-ID, dPCH-ID DPCH-ID OPTIONAL, -- for TDD only dedicatedMeasurementValue DedicatedMeasurementValue, OPTIONAL, CFN CFN iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-DM-Rsp-ExtIEs } } OPTIONAL, RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-PUSCH-Info-DM-Rsp CRITICALITY reject EXTENSION PUSCH-Info-DM-Rsp PRESENCE optional } | -- TDD only -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in Multiple-PUSCH-InfoList-DM-Rsp. { ID id-HSSICH-Info-DM-Rsp CRITICALITY reject PRESENCE optional} EXTENSION HS-SICH-ID -- TDD only { ID id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp PRESENCE optional } -- Applicable to 3.84Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported. { ID id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp PRESENCE optional } -- Applicable to 1.28Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported. { ID id-multiple-PUSCH-InfoList-DM-Rsp CRITICALITY ignore EXTENSION Multiple-PUSCH-InfoList-DM-Rsp PRESENCE optional } -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions. { ID id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-RspPRESENCE optional }| -- TDD only. This list of HS-SICH measurement values is used for the 2nd and beyond measurements of a RL when multiple HS-SICH measurement values need to be reported. ID id-DPCH-ID768-DM-Rsp CRITICALITY reject EXTENSION DPCH-ID768 PRESENCE optional -- 7.68Mcps TDD only { ID id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp PRESENCE optional }| -- Applicable to 7.68Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported. {ID id-Extended-HS-SICH-ID CRITICALITY reject EXTENSION Extended-HS-SICH-ID PRESENCE optional }, -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31 . . . } PUSCH-Info-DM-Rsp ::= SEOUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID Multiple-PUSCH-InfoList-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rsp -- Includes the 2nd through the max number of PUSCH information repetitions. Multiple-PUSCH-InfoListIE-DM-Rsp ::= SEQUENCE { pUSCH-ID PUSCH-ID OPTIONAL, dedicatedMeasurementValue DedicatedMeasurementValue OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs } } OPTIONAL,

```
. . .
}
Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-
Rsp
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-TD
                                        DPCH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs } } OPTIONAL,
    . . .
3
Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
LCR-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEQUENCE {
    dPCH-ID
                                        DPCH-ID.
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
    iE-Extensions
                                        ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs } }
    OPTIONAL,
    . . .
٦
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfHSSICHs-1)) OF Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {
    hsSICH-ID
                                        HS-SICH-ID,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
                                        ProtocolExtensionContainer { { Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                        CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                      PRESENCE optional },
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
    . . .
}
```

Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHs768PerRL-1)) OF Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp

```
Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp ::= SEQUENCE {
   dPCH-ID768
                                     DPCH-ID768.
   dedicatedMeasurementValue
                                     DedicatedMeasurementValue.
   iE-Extensions
                                     ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs } }
   OPTIONAL,
    . . .
Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-DM-Rsp ::= SEQUENCE {
   rL-Set-InformationList-DM-Rsp
                                     RL-Set-InformationList-DM-Rsp,
                                     ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }
   iE-Extensions
                                                                                                                OPTIONAL,
    . . .
RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rsp }}
RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp
                                             CRITICALITY ignore
                                                                    TYPE RL-Set-InformationItem-DM-Rsp
                                                                                                             PRESENCE mandatory }
3
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
   rL-Set-ID
                                  RL-Set-ID,
   dedicatedMeasurementValue
                                  DedicatedMeasurementValue,
   CFN
                                  CFN
                                                    OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs } } OPTIONAL,
    . . .
RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    -- DEDICATED MEASUREMENT INITIATION FAILURE
- -
  DedicatedMeasurementInitiationFailure ::= SEOUENCE
   protocolIEs
                          ProtocolIE-Container
                                                     {{DedicatedMeasurementInitiationFailure-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{DedicatedMeasurementInitiationFailure-Extensions}}
                                                                                                                OPTIONAL,
    . . .
}
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
```

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{ ID id-CRNC-CommunicationContextID	CRITICALITY	ignore	TYPE	CRNC-CommunicationContextI	ID PRESENCE mandatory }			
{ ID id-MeasurementID	CRITICALITY	ignore	TYPE	MeasurementID	PRESENCE mandatory }			
{ ID id-Cause	CRITICALITY	ignore	TYPE	Cause	PRESENCE mandatory }			
<pre>{ ID id-CriticalityDiagnostics  }</pre>	CRITICALITY	ignore	TYPE	CriticalityDiagnostics	<pre>PRESENCE optional },</pre>			
<pre>DedicatedMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {  }</pre>								
***********************************								
DedicatedMeasurementReport ::= SEQUENCE { protocolIEs  ProtocolIE-Contai protocolExtensions  ProtocolExtension  }		asurementRepoi edMeasurementI		sions}}	OPTIONAL,			
<pre>DedicatedMeasurementReport-IES NBAP-PROTOCOL-     { ID id-CRNC-CommunicationContextID     { ID id-MeasurementID     { ID id-DedicatedMeasurementObjectType-DM  }</pre>	CRITICALITY is CRITICALITY is	gnore TYPE Me	easurementID		PRESENCE mandatory }   PRESENCE mandatory }   PRESENCE mandatory } ,			
DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore EXTENSION MeasurementRecoveryReportingIndicator PRESENCE optional },  }								
all-RL RL-DM	-Rprt, t-DM-Rprt, -Rprt,	- for FDD only - for FDD only	-					
}								
	formationList-DM-Rpr colExtensionContaine		DM-Rprt-ExtI	Es } }	OPTIONAL,			
RLItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSIO	N ::= {							

```
}
RL-InformationList-DM-Rprt ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rprt }}
RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt
                                                                                                 PRESENCE mandatory }
RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-TD
                                    RL-ID,
    dPCH-TD
                                    DPCH-TD
                                                OPTIONAL,
                                                                -- for TDD only
    dedicatedMeasurementValueInformation
                                            DedicatedMeasurementValueInformation,
                                    ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL.
    . . .
RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-Info-DM-Rprt
                                    CRITICALITY reject
                                                                    EXTENSION PUSCH-Info-DM-Rprt
                                                                                                                        PRESENCE optional } |
    -- TDD only
    -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in
Multiple-PUSCH-InfoList-DM-Rprt.
    {ID id-HSSICH-Info-DM-Rprt
                                    CRITICALITY reject
                                                                    EXTENSION HS-SICH-ID
                                                                                                                        PRESENCE optional }
    -- TDD only
    { ID id-multiple-PUSCH-InfoList-DM-Rprt CRITICALITY ignore
                                                                    EXTENSION Multiple-PUSCH-InfoList-DM-Rprt
                                                                                                                        PRESENCE optional }
    -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
    { ID id-DPCH-ID768-DM-Rprt
                                    CRITICALITY reject
                                                                    EXTENSION DPCH-ID768
                                                                                                                        PRESENCE optional }
    -- 7.68Mcps TDD only
    { ID id-Extended-HS-SICH-ID
                                    CRITICALITY ignore
                                                                    EXTENSION Extended-HS-SICH-ID
                                                                                                                        PRESENCE optional },
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
    . . .
PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID
Multiple-PUSCH-InfoList-DM-Rprt ::= SEQUENCE (SIZE (1.. maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rprt
-- Includes the 2nd through the max number of PUSCH information repetitions.
Multiple-PUSCH-InfoListIE-DM-Rprt ::= SEQUENCE {
    pUSCH-ID
                                            PUSCH-ID
                                                                                                                          OPTIONAL,
    dedicatedMeasurementValue
                                            DedicatedMeasurementValue
                                                                                                                          OPTIONAL,
                                            ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
RL-Set-DM-Rprt ::= SEQUENCE {
    rL-Set-InformationList-DM-Rprt
                                        RL-Set-InformationList-DM-Rprt,
                                        ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
```

```
RL-SetItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-Set-InformationList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocollE-Single-Container {{ RL-Set-InformationItemIE-DM-Rprt }}
RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
   { ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt
                                                                                                          PRESENCE mandatory
RL-Set-InformationItem-DM-Rprt ::= SEQUENCE
   rL-Set-ID
                                RL-Set-ID,
   dedicatedMeasurementValueInformation
                                       DedicatedMeasurementValueInformation,
   iE-Extensions
                                ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
   . . .
}
RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
  DEDICATED MEASUREMENT TERMINATION REQUEST
- -
- -
        DedicatedMeasurementTerminationRequest ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{DedicatedMeasurementTerminationReguest-IEs}},
                                                  {{DedicatedMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                          OPTIONAL,
   . . .
DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::=
    { ID
          id-NodeB-CommunicationContextID
                                              CRITICALITY
                                                            iqnore
                                                                           TYPE
                                                                                  NodeB-CommunicationContextID
                                                                                                               PRESENCE mandatory
   { ID
          id-MeasurementID
                                              CRITICALITY
                                                            iqnore
                                                                           TYPE
                                                                                  MeasurementID
                                                                                                               PRESENCE mandatory
                                                                                                                                 },
   . . .
DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
     - -
- -
  DEDICATED MEASUREMENT FAILURE INDICATION
- -
  DedicatedMeasurementFailureIndication ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{DedicatedMeasurementFailureIndication-IEs}},
                                                  {{DedicatedMeasurementFailureIndication-Extensions}}
                        ProtocolExtensionContainer
   protocolExtensions
                                                                                                          OPTIONAL,
   . . .
```

```
}
DedicatedMeasurementFailureIndication-IEs_NBAP-PROTOCOL-IES ::=
     ΤD
           id-CRNC-CommunicationContextID
                                             CRITICALITY
                                                            ignore
                                                                       TYPE
                                                                               CRNC-CommunicationContextID
                                                                                                                PRESENCE mandatory
     ID
           id-MeasurementID
                                             CRITICALITY
                                                            ignore
                                                                       TYPE
                                                                               MeasurementID
                                                                                                                PRESENCE mandatory
          id-Cause
                                                            iqnore
                                                                       TYPE
                                                                                                                PRESENCE mandatory
     ID
                                             CRITICALITY
                                                                               Cause
                                                                                                                                   },
    . . .
}
DedicatedMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
-- RADIO LINK FAILURE INDICATION
RadioLinkFailureIndication ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                     {{RadioLinkFailureIndication-IEs}},
                                                    {{RadioLinkFailureIndication-Extensions}}
   protocolExtensions
                          ProtocolExtensionContainer
                                                                                                               OPTIONAL,
   . . .
l
RadioLinkFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID
           id-CRNC-CommunicationContextID
                                                     CRITICALITY ignore
                                                                               TYPE CRNC-CommunicationContextID
                                                                                                                     PRESENCE mandatory
           id-Reporting-Object-RL-FailureInd
                                                                               TYPE Reporting-Object-RL-FailureInd
   { ID
                                                     CRITICALITY ignore
                                                                                                                     PRESENCE mandatory
   . . .
RadioLinkFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Reporting-Object-RL-FailureInd ::= CHOICE {
                          RL-RL-FailureInd,
   rL
   rL-Set
                          RL-Set-RL-FailureInd, --FDD only
   ...,
   cCTrCH
                          CCTrCH-RL-FailureInd --TDD only
RL-RL-FailureInd ::= SEOUENCE {
   rL-InformationList-RL-FailureInd
                                         RL-InformationList-RL-FailureInd,
   iE-Extensions
                                         ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs } }
                                                                                                               OPTIONAL,
   . . .
}
RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

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RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-FailureInd}} RL-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationItem-RL-FailureInd CRITICALITY ignore TYPE RL-InformationItem-RL-FailureInd PRESENCE mandatory } 3 RL-InformationItem-RL-FailureInd ::= SEOUENCE { rL-ID RL-ID, cause Cause, ProtocolExtensionContainer { { RL-InformationItem-RL-FailureInd-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . RL-Set-RL-FailureInd ::= SEQUENCE { RL-Set-InformationList-RL-FailureInd, rL-Set-InformationList-RL-FailureInd ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } } iE-Extensions OPTIONAL, . . . RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-RL-FailureInd }} RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= { { ID id-RL-Set-InformationItem-RL-FailureInd CRITICALITY ignore TYPE RL-Set-InformationItem-RL-FailureInd PRESENCE mandatory RL-Set-InformationItem-RL-FailureInd ::= SEOUENCE { rL-Set-ID RL-Set-ID, cause Cause, ProtocolExtensionContainer { { RL-Set-InformationItem-RL-FailureInd-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-Set-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= . . . CCTrCH-RL-FailureInd ::= SEOUENCE { rL-ID RL-ID, cCTrCH-InformationList-RL-FailureInd CCTrCH-InformationList-RL-FailureInd, ProtocolExtensionContainer { { CCTrCHItem-RL-FailureInd-ExtIEs } } iE-Extensions OPTIONAL, . . . } CCTrCHItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

```
}
CCTrCH-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
FailureInd} }
CCTrCH-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
    { ID id-CCTrCH-InformationItem-RL-FailureInd
                                                     CRITICALITY iqnore
                                                                           TYPE CCTrCH-InformationItem-RL-FailureInd
                                                                                                                         PRESENCE mandatory }
CCTrCH-InformationItem-RL-FailureInd ::= SEOUENCE {
                                             CCTrCH-ID,
   cCTrCH-ID
    cause
                                             Cause,
   iE-Extensions
                                             ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-FailureInd-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
CCTrCH-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ·
    - -
-- RADIO LINK PREEMPTION REQUIRED INDICATION
RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {RadioLinkPreemptionRequiredIndication-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL,
    . . .
RadioLinkPreemptionRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CRNC-CommunicationContextID
                                                    CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                      PRESENCE mandatory } |
    { ID id-RL-InformationList-RL-PreemptRequiredInd CRITICALITY iqnore TYPE RL-InformationList-RL-PreemptRequiredInd PRESENCE optional },
    . . .
}
RadioLinkPreemptionRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-InformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationItemIE-RL-
PreemptRequiredInd} 
RL-InformationItemIE-RL-PreemptRequiredInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-PreemptRequiredInd CRITICALITY ignore TYPE RL-InformationItem-RL-PreemptRequiredInd PRESENCE mandatory },
    . . .
}
RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
   rL-ID
                              RL-ID,
   iE-Extensions
                              ProtocolExtensionContainer { {RL-InformationItem-RL-PreemptRequiredInd-ExtIEs } } OPTIONAL,
```

```
}
RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
   ***********
- -
-- RADIO LINK RESTORE INDICATION
RadioLinkRestoreIndication ::= SEQUENCE {
   protocolIEs
                  ProtocolIE-Container
                                                     {{RadioLinkRestoreIndication-IEs}},
   protocolExtensions
                       ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                                               OPTIONAL,
   . . .
}
RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                 CRITICALITY ignore TYPE CRNC-CommunicationContextID
     ΤD
                                                                                                               PRESENCE mandatory
   { ID
          id-Reporting-Object-RL-RestoreInd
                                                 CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd
                                                                                                               PRESENCE mandatory
                                                                                                                                   }.
   . . .
}
RadioLinkRestoreIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
Reporting-Object-RL-RestoreInd ::= CHOICE {
                         RL-RL-RestoreInd, --TDD only
   rL
   rL-Set
                         RL-Set-RL-RestoreInd, --FDD only
   . . . .
   cCTrCH
                         CCTrCH-RL-RestoreInd --TDD only
RL-RL-RestoreInd ::= SEQUENCE {
   rL-InformationList-RL-RestoreInd
                                         RL-InformationList-RL-RestoreInd,
                                         ProtocolExtensionContainer { { RLItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                               OPTIONAL,
   . . .
}
RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationItemIE-RL-RestoreInd}}
RL-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
   { ID
         id-RL-InformationItem-RL-RestoreInd
                                                 CRITICALITY ignore
                                                                       TYPE
                                                                            RL-InformationItem-RL-RestoreInd
                                                                                                                     PRESENCE mandatory }
}
RL-InformationItem-RL-RestoreInd ::= SEQUENCE {
   rL-ID
                                         RL-ID,
   iE-Extensions
                                         ProtocolExtensionContainer { { RL-InformationItem-RL-RestoreInd-ExtIEs } }
                                                                                                                  OPTIONAL,
```

```
. . .
}
RL-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-RL-RestoreInd ::= SEOUENCE {
   rL-Set-InformationList-RL-RestoreInd RL-Set-InformationList-RL-RestoreInd,
                                            ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
RL-SetItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-RL-
RestoreInd }}
RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-RL-RestoreInd CRITICALITY ignore
                                                                         TYPE RL-Set-InformationItem-RL-RestoreInd PRESENCE mandatory }
}
RL-Set-InformationItem-RL-RestoreInd ::= SEQUENCE {
    rL-Set-ID
                           RL-Set-ID,
                           ProtocolExtensionContainer { { RL-Set-InformationItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
RL-Set-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CCTrCH-RL-RestoreInd ::= SEOUENCE {
   rL-ID
                                            RL-ID,
    cCTrCH-InformationList-RL-RestoreInd
                                            CCTrCH-InformationList-RL-RestoreInd,
                                            ProtocolExtensionContainer { { CCTrCHItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
CCTrCHItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
RestoreInd} }
CCTrCH-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
    { ID id-CCTrCH-InformationItem-RL-RestoreInd CRITICALITY ignore TYPE CCTrCH-InformationItem-RL-RestoreInd
                                                                                                                        PRESENCE mandatory }
}
CCTrCH-InformationItem-RL-RestoreInd ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
```

```
ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                                     OPTIONAL,
   . . .
CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
    ***********
  COMPRESSED MODE COMMAND FDD
- -
- -
  ******
CompressedModeCommand ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                  {{CompressedModeCommand-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer
                                                 {{CompressedModeCommand-Extensions}}
                                                                                                    OPTIONAL.
   . . .
CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-NodeB-CommunicationContextID
                                               CRITICALITY ignore
                                                                    TYPE NodeB-CommunicationContextID
                                                                                                             PRESENCE mandatory }
   { ID id-Active-Pattern-Sequence-Information
                                               CRITICALITY ignore
                                                                    TYPE Active-Pattern-Sequence-Information
                                                                                                             PRESENCE mandatory },
   . . .
}
CompressedModeCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    -- ERROR INDICATION
- -
             ErrorIndication ::= SEQUENCE {
                                                   {{ErrorIndication-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{ErrorIndication-Extensions}}
                                                                                  OPTIONAL,
   . . .
}
ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
     ΤD
          id-CRNC-CommunicationContextID
                                           CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                               CRNC-CommunicationContextID
                                                                                                             PRESENCE optional
          id-NodeB-CommunicationContextID
                                                                               NodeB-CommunicationContextID
                                                                                                             PRESENCE optional
     ID
                                           CRITICALITY
                                                         iqnore
                                                                        TYPE
     ID
          id-Cause
                                           CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                               Cause
                                                                                                             PRESENCE optional
     ID
          id-CriticalityDiagnostics
                                                                               CriticalityDiagnostics
                                                                                                             PRESENCE optional },
                                           CRITICALITY
                                                         ignore
                                                                        TYPE
```

```
. . .
}
ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ******
-- PRIVATE MESSAGE
- -
  **********
PrivateMessage ::= SEQUENCE {
   privateIEs
              PrivateIE-Container {{PrivateMessage-IEs}},
   . . .
}
PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
   . . .
        - -
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST FDD
PhysicalSharedChannelReconfigurationReguestFDD ::= SEQUENCE {
                     ProtocolIE-Container
                                              {{PhysicalSharedChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestFDD-Extensions}}
                                                                                                      OPTIONAL.
   . . .
}
PhysicalSharedChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-C-ID
                                                     CRITICALITY reject TYPE C-ID
                                                                                                                 PRESENCE mandatory
}|
     ID id-ConfigurationGenerationID
                                                     CRITICALITY reject TYPE ConfigurationGenerationID
                                                                                                                 PRESENCE mandatory
}|
     ID id-SFN
                                                     CRITICALITY reject TYPE SFN
                                                                                                                 PRESENCE optional } |
                                                                                                       TYPE MaximumTransmissionPower
    ID id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst
                                                                       CRITICALITY reject
              PRESENCE optional }
     ID id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst CRITICALITY reject TYPE DL-ScramblingCode
                                                                                                                 PRESENCE optional }
     ID id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst CRITICALITY reject TYPE HS-PDSCH-FDD-Code-Information
                                                                                                                 PRESENCE optional }
     ID id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst
                                                     CRITICALITY reject TYPE HS-SCCH-FDD-Code-Information
                                                                                                                 PRESENCE optional },
   . . .
}
PhysicalSharedChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code
                                                        CRITICALITY reject EXTENSION DL-ScramblingCode
   PRESENCE optional }
   { ID id-E-AGCH-FDD-Code-Information
                                                            CRITICALITY reject EXTENSION E-AGCH-FDD-Code-Information
   PRESENCE optional }|
```

<pre>{ ID id-E-RGCH-E-HICH-FDD-Code-Information PRESENCE optional } </pre>	CRITICALITY reject EXTENSION E-RGCH-E-HICH-FDD-Code-Information
{ID id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRqst	CRITICALITY reject EXTENSION HSDPA-And-EDCH-CellPortion-InformationList-PSCH-
ReconfRqst PRESENCE optional }	
{ID id-Maximum-Target-ReceivedTotalWideBandPower	CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower
PRESENCE optional }	
{ID id-Reference-ReceivedTotalWideBandPower	CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPower
PRESENCE optional }	
{ID id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio	CRITICALITY reject EXTENSION Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio
PRESENCE optional }	
{ ID id-HSDSCH-Common-System-InformationFDD	CRITICALITY reject EXTENSION HSDSCH-Common-System-InformationFDD
PRESENCE optional }	
{ ID id-Common-MACFlows-to-DeleteFDD CRITICALITY	Y reject EXTENSION Common-MACFlows-to-DeleteFDD
PRESENCE optional }	-
{ ID id-HSDSCH-Paging-System-InformationFDD CRITIC	ALITY reject EXTENSION HSDSCH-Paging-System-InformationFDD
PRESENCE optional }	
	Y reject EXTENSION Paging-MACFlows-to-DeleteFDD
PRESENCE optional },	
}	

HSDPA-And-EDCH-CellPortion-InformationList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst

HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst::= SEQUENCE { cellPortionID CellPortionID, hS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst DL-ScramblingCode OPTIONAL, hS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst HS-PDSCH-FDD-Code-Information OPTIONAL, hS-SCCH-FDD-Code-Information-PSCH-ReconfRqst HS-SCCH-FDD-Code-Information OPTIONAL, MaximumTransmissionPower hS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst OPTIONAL, e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code DL-ScramblingCode OPTIONAL, e-AGCH-FDD-Code-Information E-AGCH-FDD-Code-Information OPTIONAL, e-RGCH-E-HICH-FDD-Code-Information E-RGCH-E-HICH-FDD-Code-Information OPTIONAL, ProtocolExtensionContainer { { HSDPA-And-EDCH-CellPortion-InformationItemiE-Extensions PSCH-ReconfRqst-ExtIEs } } OPTIONAL, . . . } HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } - --- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD - -\*\*\*\*\* PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE { {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestTDD-Extensions}} OPTIONAL, . . . }

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PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } ID id-SFN CRITICALITY reject TYPE SFN PRESENCE optional ID id-PDSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst PRESENCE optional ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE optional ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-DeleteList-PSCH-ReconfRgst PRESENCE optional ID id-PUSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-AddList-PSCH-ReconfRqst PRESENCE optional ID id-PUSCHSets-ModifvList-PSCH-ReconfRast CRITICALITY reject TYPE PUSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE optional } ID id-PUSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst PRESENCE optional }, . . . PhysicalSharedChannelReconfigurationReguestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { ID id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRgst PRESENCE optional } | { ID id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRgst CRITICALITY reject EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRgst PRESENCE optional } | { ID id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRgst CRITICALITY reject EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRast PRESENCE optional } { ID id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRgst PRESENCE optional } | ID id-ConfigurationGenerationID CRITICALITY reject EXTENSION ConfigurationGenerationID PRESENCE optional }| ID id-E-PUCH-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-PUCH-Information-PSCH-ReconfRqst PRESENCE optional }| { ID id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRast PRESENCE optional } { ID id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-PSCH-ReconfRast PRESENCE optional } | { ID id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Delete-From-E-AGCH-Resource-Pool-PSCH-PRESENCE optional } | ReconfRqst { ID id-E-HICH-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-HICH-Information-PSCH-ReconfRqst PRESENCE optional }| ID id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells CRITICALITY reject EXTENSION Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells PRESENCE optional } |-- Applicable to 3.84Mcps TDD or 7.68Mcps TDD. { ID id-E-PUCH-Information-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-PUCH-Information-768-PSCH-ReconfRost PRESENCE optional }| { ID id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst PRESENCE optional } | { ID id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst PRESENCE optional } | { ID id-E-HICH-Information-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-HICH-Information-768-PSCH-ReconfRqst PRESENCE optional }| { ID id-E-PUCH-Information-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-PUCH-Information-LCR-PSCH-ReconfRqst PRESENCE optional }| { ID id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast PRESENCE optional } { ID id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast CRITICALITY reject EXTENSION Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast PRESENCE optional }| { ID id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst PRESENCE optional }| ID id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst PRESENCE optional } { ID id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst PRESENCE optional }

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{ ID id-SYNC-UL-Partition-LCR CRITICALITY reject EXTENSION SYNC-UL-Partition-LCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. { ID id-Maximum-Target-ReceivedTotalWideBandPower-LCR CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower-LCR PRESENCE optional }| -- Applicable to 1.28Mcps TDD only. { ID id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRgst CRITICALITY reject EXTENSION Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRast. PRESENCE optional }, -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message. . . . PDSCHSets-AddList-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRgst PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE { pDSCHSet-ID PDSCHSet-ID, pDSCH-InformationList PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL, -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD iE-Extensions ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL, . . . PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRgst CRITICALITY reject EXTENSION PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRost optional} | -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. PRESENCE {ID id-PDSCH-AddInformation-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst PRESENCE optional}, -- Mandatory for 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD. . . . PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }} -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= { {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRgst CRITICALITY reject TYPE PDSCH-Information-AddItem-PSCH-ReconfRgst PRESENCE mandatory } } PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset, dL-Timeslot-InformationAddList-PSCH-ReconfRgst DL-Timeslot-InformationAddList-PSCH-ReconfRqst, ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-Timeslot-InformationAddList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRgst DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {

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TimeSlot, timeSlot midambleShiftAndBurstType MidambleShiftAndBurstType, tFCI-Presence TFCI-Presence. dL-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst, iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRgst-ExtIEs } } OPTIONAL. . . . DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . DL-Code-InformationAddList-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRgst DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE { pDSCH-ID PDSCH-ID, tdd-ChannelisationCode TDD-ChannelisationCode, iE-Extensions ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRgst-ExtIEs } } OPTIONAL, . . . ٦ DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod, RepetitionLength, repetitionLength tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset, dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst, iE-Extensions ProtocolExtensionContainer { { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL, . . . PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-Tstd-indicator CRITICALITY reject EXTENSION TSTD-Indicator PRESENCE optional }, -- Applicable to 1.28Mcps TDD only . . . } DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE { timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR, tFCI-Presence TFCI-Presence, dL-Code-InformationAddList-LCR-PSCH-ReconfRqst DL-Code-InformationAddList-LCR-PSCH-ReconfRqst, iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL, . . .

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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. . .
3
DL-Code-InformationAddList-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRgst
DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                           OPTIONAL,
DL-Code-InformationAddItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                       CRITICALITY reject
                                                                                 EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
                                                                                                                               PRESENCE optional },
    . . .
}
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
                                            RepetitionLength,
    repetitionLength
    tdd-PhysicalChannelOffset
                                            TDD-PhysicalChannelOffset,
    dL-Timeslot-InformationAddList-768-PSCH-ReconfRqst
                                                                     DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
                                                 ProtocolExtensionContainer { { PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
    }
PDSCH-AddInformation-768-AddItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tFCI-Presence
                                            TFCI-Presence,
    dL-Code-InformationAddList-768-PSCH-ReconfRqst
                                                                 DL-Code-InformationAddList-768-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Code-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-768-PSCH-ReconfRqst
DL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID768
                                            PDSCH-ID768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
```

DL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE { pDSCHSet-ID PDSCHSet-ID, pDSCH-InformationList PDSCH-Information-ModifyList-PSCH-ReconfRqst, ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . PDSCHSets-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst optional}, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD. PRESENCE . . . ۱ PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }} PDSCH-Information-ModifyListIEs-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= { {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst PRESENCE optional} {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRgst PRESENCE optional} PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod OPTIONAL, repetitionLength RepetitionLength OPTIONAL, tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL, dL-Timeslot-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . PDSCH-Information-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { timeSlot TimeSlot, midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL, tFCI-Presence TFCI-Presence OPTIONAL, dL-Code-InformationModifyList-PSCH-ReconfRqst DL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . .

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DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Code-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRgst
DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
٦
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    repetitionPeriod
                                                                 RepetitionPeriod
                                                                                                                            OPTIONAL,
    repetitionLength
                                                                 RepetitionLength
                                                                                                                            OPTIONAL.
    tdd-PhysicalChannelOffset
                                                                 TDD-PhysicalChannelOffset
                                                                                                                           OPTIONAL,
                                                                 DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst
    dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                                           OPTIONAL,
                                                 ProtocolExtensionContainer { { PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ·
DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModifyItem-PSCH-
ReconfRqst
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR
                                                             TimeSlotLCR,
    midambleShiftLCR
                                                             MidambleShiftLCR
                                                                                                                         OPTIONAL,
    tFCI-Presence
                                                             TFCI-Presence
                                                                                                                         OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                             DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst
                                                                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE
    pDSCH-ID
                                            PDSCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
```

ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL. . . . DL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRgst-LCR CRITICALITY reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE optional }, . . . } PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE repetitionPeriod RepetitionPeriod OPTIONAL repetitionLength RepetitionLength OPTIONAL. tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL, dL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst DL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst OPTIONAL, ProtocolExtensionContainer { { PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRgst-ExtIEs } } iE-Extensions OPTIONAL, . . . PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= · DL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { timeSlot TimeSlot, midambleShiftAndBurstType768 MidambleShiftAndBurstType768 OPTIONAL, OPTIONAL, tFCI-Presence TFCI-Presence dL-Code-768-InformationModifyList-PSCH-ReconfRqst DL-Code-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { { DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . 3 DL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-768-InformationModifyItem-PSCH-ReconfRqst DL-Code-768-InformationModifvItem-PSCH-ReconfRgst ::= SEOUENCE { pDSCH-ID768 PDSCH-ID768, tdd-ChannelisationCode768 TDD-ChannelisationCode768, ProtocolExtensionContainer { { DL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . } DL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

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PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst
PDSCHSets-DeleteItem-PSCH-ReconfRqst
                                         ::= SEQUENCE {
    pDSCHSet-ID
                                                PDSCHSet-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                                OPTIONAL,
    . . .
}
PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
٦
PUSCHSets-AddList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRgst
PUSCHSets-AddItem-PSCH-ReconfRqst
                                     ::= SEQUENCE {
    pUSCHSet-ID
                                                PUSCHSet-ID,
    pUSCH-InformationList
                                                PUSCH-Information-AddList-PSCH-ReconfRqst
                                                                                            OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
    iE-Extensions
                                                ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }
                                                                                                                             OPTIONAL,
    . . .
PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst
                                                        CRITICALITY reject
                                                                                EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
               optional} -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
    PRESENCE
    { ID id-PUSCH-AddInformation-768-PSCH-ReconfRqst
                                                      CRITICALITY reject
                                                                                EXTENSION PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    . . .
PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}
PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    { ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRqst
                                                                                                                                PRESENCE mandatory }
}
PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                    RepetitionPeriod,
    repetitionLength
                                                    RepetitionLength,
    tdd-PhysicalChannelOffset
                                                    TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
                                                    ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
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timeSlot
                                                 TimeSlot,
    midambleShiftAndBurstType
                                                 MidambleShiftAndBurstType,
    tFCI-Presence
                                                 TFCI-Presence.
    uL-Code-InformationAddList-PSCH-ReconfRgst UL-Code-InformationAddList-PSCH-ReconfRgst,
    iE-Extensions
                                                 ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Code-InformationAddList-PSCH-ReconfRgst ::= SEOUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRgst
UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE
    pUSCH-ID
                                            PUSCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod
                                                         RepetitionPeriod,
    repetitionLength
                                                         RepetitionLength,
    tdd-PhysicalChannelOffset
                                                         TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
                                                 ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR
    tFCI-Presence
                                                     TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    . . .
}
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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UL-Code-InformationAddList-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRgst
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID
                                            PUSCH-ID.
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ·
    {ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR
                                                        CRITICALITY reject
                                                                                 EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
                                                                                                                               PRESENCE optional },
    . . .
}
PUSCH-AddInformation-768-AddItem-PSCH-ReconfRgst ::= SEQUENCE {
    repetitionPeriod
                                                         RepetitionPeriod,
    repetitionLength
                                                         RepetitionLength,
    tdd-PhysicalChannelOffset
                                                        TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-768-PSCH-ReconfRqst UL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
                                                ProtocolExtensionContainer { {PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs} }
    iE-Extensions
    OPTIONAL,
    . . .
PUSCH-AddInformation-768-AddItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-768-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-768-PSCH-ReconfRgst
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot
                                                     TimeSlot,
    midambleShiftAndBurstTvpe768
                                                    MidambleShiftAndBurstTvpe768,
    tFCI-Presence
                                                    TFCI-Presence,
    uL-Code-InformationAddList-768-PSCH-ReconfRqst UL-Code-InformationAddList-768-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-768-PSCH-ReconfRqst
UL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID
                                            PUSCH-ID,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
```

UL-Code-InformationAddItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEOUENCE { pUSCHSet-ID PUSCHSet-ID, pUSCH-InformationList PUSCH-Information-ModifyList-PSCH-ReconfRqst, iE-Extensions ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRgst-ExtIEs} } OPTIONAL, . . . PUSCHSets-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst PRESENCE optional}, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD. . . . PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocollE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }} PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= { {ID id-PUSCH-Information-ModifvListIE-PSCH-ReconfRost CRITICALITY reject TYPE PUSCH-Information-ModifvItem-PSCH-ReconfRgst PRESENCE optional} {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst PRESENCE optional } PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod OPTIONAL, repetitionLength RepetitionLength OPTIONAL, tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL, uL-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { {PUSCH-Information-ModifvItem-PSCH-ReconfRgst-ExtIEs} } iE-Extensions OPTIONAL, . . . PUSCH-Information-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . 3 UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst UL-Timeslot-InformationModifvItem-PSCH-ReconfRgst ::= SEOUENCE timeSlot TimeSlot, midambleShiftAndBurstTvpe MidambleShiftAndBurstTvpe OPTIONAL, tFCI-Presence TFCI-Presence OPTIONAL, uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . .

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UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { UL-Code-InformationModifyList-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRgst UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { pUSCH-ID PUSCH-ID, tdd-ChannelisationCode TDD-ChannelisationCode, ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod OPTIONAL, repetitionLength OPTIONAL, RepetitionLength tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL, uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { {PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs} } iE-Extensions OPTIONAL, . . . PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR OPTIONAL, tFCI-Presence TFCI-Presence OPTIONAL, uL-Code-LCR-InformationModifyList-PSCH-ReconfRqst UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL, iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs } } OPTIONAL, . . . UL-Timeslot-LCR-InformationModifvItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { pUSCH-ID PUSCH-ID, tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,

ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL. . . . UL-Code-LCR-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional }, . . . } PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE { repetitionPeriod RepetitionPeriod OPTIONAL, repetitionLength RepetitionLength OPTIONAL. tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL. uL-Timeslot-InformationModifyList-768-PSCH-ReconfRgst UL-Timeslot-768-InformationModifyList-PSCH-ReconfRgst OPTIONAL, iE-Extensions ProtocolExtensionContainer { {PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL, . . . PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } UL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE { timeSlot TimeSlot, midambleShiftAndBurstType768 MidambleShiftAndBurstType768 OPTIONAL, TFCI-Presence tFCI-Presence OPTIONAL, uL-Code-768-InformationModifyList-PSCH-ReconfRqst UL-Code-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL, ProtocolExtensionContainer { { UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . 3 UL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-768-InformationModifyItem-PSCH-ReconfRqst UL-Code-768-InformationModifvItem-PSCH-ReconfRgst ::= SEOUENCE { pUSCH-ID PUSCH-ID, tdd-ChannelisationCode768 TDD-ChannelisationCode768, ProtocolExtensionContainer { { UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . } UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

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PUSCHSets-DeleteList-PSCH-ReconfRast ::= SEQUENCE (SIZE (1.,maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRast
PUSCHSets-DeleteItem-PSCH-ReconfRqst
                                         ::= SEOUENCE {
    pUSCHSet-ID
                                                PUSCHSet-ID,
                                                ProtocolExtensionContainer { {PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} }
   iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
}
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= SEQUENCE {
    dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst
                                                                        DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRgst
                                                                                                                                OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                        DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                                                                                OPTIONAL,
    -- This HS-PDSCH Timeslot Information is for the first Frequency repetition, HS-PDSCH Timeslot information for Frequency repetitions 2 and on,
should be defined in MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRgst-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL.
    . . .
HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst
                                                                                                 CRITICALITY reject
                                                                                                                       EXTENSION DL-HS-PDSCH-
Timeslot-Information-768-PSCH-ReconfRqst
                                                    PRESENCE
                                                                optional }| -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    { ID id-UARFCNforNt
                                                                                                 CRITICALITY ignore
                                                                                                                       EXTENSION UARFCN
                                                        PRESENCE optional }|
    -- This is the UARFCN for the first Frequency repetition. Mandatory for 1.28Mcps TDD when using multiple frequencies.
    { ID id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                                                                 CRITICALITY reject
                                                                                                                       EXTENSION MultipleFreq-DL-HS-
                                                    PRESENCE optional },
PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
    -- Applicable to 1.28Mcps TDD when using multiple frequencies, This Information is for the 2nd and beyond Frequency repetition
    . . .
DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst::= SEQUENCE
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    dl-HS-PDSCH-Codelist-PSCH-ReconfRqst
                                            DL-HS-PDSCH-Codelist-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power
                                            MaximumTransmissionPower
                                                                                     OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    . . .
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-HS-PDSCH-Codelist-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
```

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DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst

```
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot
                                                TimeSlotLCR.
    midambleShiftAndBurstType
                                                MidambleShiftLCR,
    dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst
                                                DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power
                                                MaximumTransmissionPower
                                                                                             OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs } }
        OPTIONAL,
    . . .
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode
DL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-
ReconfRqst
DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst::= SEQUENCE {
    timeSlot
                                                TimeSlot,
    midambleShiftAndBurstType768
                                                MidambleShiftAndBurstType768,
    dl-HS-PDSCH-Codelist-768-PSCH-ReconfRqst
                                                DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst,
    maxHSDSCH-HSSCCH-Power
                                                MaximumTransmissionPower
                                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    . . .
DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ·
    . . .
DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs768)) OF TDD-ChannelisationCode768
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{
MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRgst}
    -- Includes the 2nd through the max number of frequency repetitions.
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    { ID id-MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst CRITICALITY reject
                                                                                                                     TYPE MultipleFreq-DL-HS-PDSCH-
Timeslot-Information-LCRItem-PSCH-ReconfRost PRESENCE optional }
MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst ::= SEQUENCE
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
                                                            DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRgst
                                                                                                                     OPTIONAL,
    UARFCN
                                                            UARFCN,
                                                            ProtocolExtensionContainer { { MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-
    iE-Extensions
PSCH-ReconfRqst-ExtIEs } }
                                OPTIONAL,
    . . .
```

MultipleFreg-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRgst::= SEQUENCE { hS-SCCH-Information-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL, hS-SCCH-Information-LCR-PSCH-ReconfRqst HS-SCCH-Information-LCR-PSCH-ReconfRqst OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } } OPTIONAL, Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-hS-SCCH-Information-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-SCCH-Information-768-PSCH-ReconfRqst PRESENCE optional } -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD. { ID id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRgst CRITICALITY ignore EXTENSION HS-SCCH-InformationExt-LCR-PSCH-ReconfRgst PRESENCE optional }, -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message. . . . HS-SCCH-Information-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRgst HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE hS-SCCH-ID HS-SCCH-ID, timeSlot TimeSlot, midambleShiftAndBurstType MidambleShiftAndBurstType, TDD-ChannelisationCode, tdd-ChannelisationCode hS-SCCH-MaxPower DL-Power, hS-SICH-Information HS-SICH-Information-PSCH-ReconfRgst, ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs } } iE-Extensions OPTIONAL, . . . HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { HS-SICH-Information-PSCH-ReconfRgst ::= SEQUENCE hsSICH-ID HS-SICH-ID, timeSlot TimeSlot, MidambleShiftAndBurstType, midambleShiftAndBurstType tdd-ChannelisationCode TDD-ChannelisationCode, ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRgst-ExtIEs } } iE-Extensions OPTIONAL, . . . HS-SICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= . . . } HS-SCCH-Information-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst

```
HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
   hS-SCCH-ID
                                            HS-SCCH-ID.
    timeSlotLCR
                                            TimeSlotLCR.
                                            MidambleShiftLCR,
    midambleShiftLCR
    first-TDD-ChannelisationCode
                                            TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode,
    hS-SCCH-MaxPower
                                            DL-Power,
    hS-SICH-Information-LCR
                                            HS-SICH-Information-LCR-PSCH-ReconfRgst,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                        OPTIONAL,
HS-SCCH-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SCCH-ID
                                                      CRITICALITY ignore
                                                                             EXTENSION Extended-HS-SCCH-ID
                                                                                                                      PRESENCE optional } |
    -- used if the HS-SCCH identity has a value larger than 31
   { ID id-UARFCNforNt
                                                     CRITICALITY ignore
                                                                             EXTENSION UARFCN
                                                                                                                      PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID
                                            HS-SICH-ID,
    timeSlotLCR
                                            TimeSlotLCR,
   midambleShiftLCR
                                            MidambleShiftLCR,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                         CRITICALITY ignore EXTENSION Extended-HS-SICH-ID
                                                                                                                      PRESENCE optional },
    -- used if the HS-SICH identity has a value larger than 31
    . . .
l
HS-SCCH-Information-768-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-768-PSCH-ReconfRqst
HS-SCCH-InformationItem-768-PSCH-ReconfRqst ::= SEQUENCE
    hS-SCCH-ID
                                            HS-SCCH-ID,
    timeSlot
                                            TimeSlot,
                                            MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    hS-SCCH-MaxPower
                                            DL-Power,
                                            HS-SICH-Information-768-PSCH-ReconfRqst,
    hS-SICH-Information-768
                                            ProtocolExtensionContainer { { HS-SCCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
HS-SCCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-SICH-Information-768-PSCH-ReconfRqst ::= SEQUENCE
                                            HS-SICH-ID,
   hsSICH-ID
```

```
timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768.
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-Information-768-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                 OPTIONAL.
    . . .
HS-SICH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
    hS-SCCH-InformationModify-PSCH-ReconfRgst
                                                     HS-SCCH-InformationModify-PSCH-ReconfRgst
                                                                                                                      OPTIONAL,
    hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst
                                                    HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst
                                                                                                                      OPTIONAL,
                                                     ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-hS-SCCH-InformationModify-768-PSCH-ReconfRqst
                                                                 CRITICALITY reject EXTENSION HS-SCCH-InformationModify-768-PSCH-ReconfRqst
    PRESENCE optional } |
    -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    { ID id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRgst CRITICALITY ignore EXTENSION HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRgst
    PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
    . . .
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
                                                 ::= SEQUENCE {
   hS-SCCH-ID
                                            HS-SCCH-ID,
    timeSlot
                                            TimeSlot
                                                                                         OPTIONAL,
                                            MidambleShiftAndBurstTvpe
    midambleShiftAndBurstTvpe
                                                                                         OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                                         OPTIONAL,
    hS-SCCH-MaxPower
                                            DL-Power
                                                                                         OPTIONAL,
    hS-SICH-Information
                                            HS-SICH-InformationModify-PSCH-ReconfRqst
                                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationModify-PSCH-ReconfRqst
                                             ::= SEOUENCE
    hsSICH-ID
                                            HS-SICH-ID.
    timeSlot
                                            TimeSlot
                                                                         OPTIONAL,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                         OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                         OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
```

HS-SICH-InformationModify-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . HS-SCCH-InformationModify-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst := SEQUENCE { hS-SCCH-ID HS-SCCH-ID, timeSlotLCR TimeSlotLCR OPTIONAL. midambleShiftLCR MidambleShiftLCR OPTIONAL, first-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL, second-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL. hS-SCCH-MaxPower DL-Power OPTIONAL. HS-SICH-InformationModify-LCR-PSCH-ReconfRqst OPTIONAL, hS-SICH-Information-LCR iE-Extensions ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst-ExtIEs } } OPTIONAL, . . . HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Extended-HS-SCCH-ID CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID PRESENCE optional } | -- used if the HS-SCCH identity has a value larger than 31 { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional }, -- Applicable to 1.28Mcps TDD when using multiple frequencies . . . 3 HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRgst HS-SICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE { hsSICH-ID HS-SICH-ID, timeSlotLCR TimeSlotLCR OPTIONAL, midambleShiftLCR MidambleShiftLCR OPTIONAL, tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL, . . . HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Extended-HS-SICH-ID CRITICALITY ignore EXTENSION Extended-HS-SICH-ID PRESENCE optional }, -- used if the HS-SICH identity has a value larger than 31 . . . } HS-SCCH-InformationModify-768-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst := SEQUENCE { hS-SCCH-ID HS-SCCH-ID, timeSlot TimeSlot OPTIONAL MidambleShiftAndBurstType768, midambleShiftAndBurstType768 tdd-ChannelisationCode768 TDD-ChannelisationCode768, hS-SCCH-MaxPower DL-Power OPTIONAL, HS-SICH-InformationModify-768-PSCH-ReconfRqst OPTIONAL, hS-SICH-Information-768

```
ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
HS-SCCH-InformationModifyItem-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
HS-SICH-InformationModify-768-PSCH-ReconfRqst
                                               ::= SEQUENCE {
                                            HS-SICH-ID,
   hsSICH-ID
    timeSlot
                                            TimeSlot
                                                                                              OPTIONAL.
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    iE-Extensions
                                            ProtocolExtensionContainer { { HS-SICH-InformationModify-768-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
HS-SICH-InformationModify-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-SCCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst
Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
                                                         ::= SEOUENCE {
Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
    hS-SCCH-ID
                                HS-SCCH-ID,
                                ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
}
Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                         CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID
    { ID id-Extended-HS-SCCH-ID
                                                                                                                      PRESENCE optional },
    -- used if the HS-SCCH identity has a value larger than 31
    . . .
}
E-PUCH-Information-PSCH-ReconfRqst ::= SEQUENCE {
    1TGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    e-PUCH-Timeslot-Info
                                            E-PUCH-Timeslot-Info,
                                            ProtocolExtensionContainer { { E-PUCH-Information-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
E-PUCH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-Timeslot-Info ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlots)) OF TimeSlot
Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
```

```
e-AGCH-Information-PSCH-ReconfRqst
                                             E-AGCH-Information-PSCH-ReconfRqst
                                                                                      OPTIONAL,
    iE-Extensions
                                             ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRast-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Information-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-PSCH-ReconfRqst
E-AGCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID
                                             E-AGCH-Id,
    timeSlot
                                             TimeSlot,
    midambleShiftAndBurstType
                                             MidambleShiftAndBurstType,
    tdd-ChannelisationCode
                                             TDD-ChannelisationCode,
    e-AGCH-MaxPower
                                             DL-Power,
    iE-Extensions
                                             ProtocolExtensionContainer { { E-AGCH-InformationItem-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE
    e-AGCH-InformationModify-PSCH-ReconfRqst
                                                     E-AGCH-InformationModify-PSCH-ReconfRqst
                                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    . . .
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-InformationModify-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-PSCH-ReconfRqst
E-AGCH-InformationModifyItem-PSCH-ReconfRqst
                                                  ::= SEQUENCE {
    e-AGCH-ID
                                             E-AGCH-Id,
    timeSlot
                                             TimeSlot
                                                                          OPTIONAL,
    midambleShiftAndBurstType
                                             MidambleShiftAndBurstType
                                                                         OPTIONAL,
    tdd-ChannelisationCode
                                             TDD-ChannelisationCode
                                                                          OPTIONAL,
    e-AGCH-MaxPower
                                             DL-Power
                                                                          OPTIONAL,
                                             ProtocolExtensionContainer { { E-AGCH-InformationModifvItem-PSCH-ReconfRgst-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
E-AGCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst
```

```
Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst
                                                          ::= SEOUENCE
    e-AGCH-ID
                                        E-AGCH-Id.
    iE-Extensions
                                        ProtocolExtensionContainer { { Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-Information-PSCH-ReconfRqst := SEQUENCE {
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    e-HICH-MaxPower
                                            DL-Power.
   iE-Extensions
                                            ProtocolExtensionContainer { { E-HICH-Information-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
E-HICH-Information-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-PUCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
   1TGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
   midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    e-PUCH-Timeslot-Info
                                            E-PUCH-Timeslot-Info,
                                            ProtocolExtensionContainer { { E-PUCH-Information-768-PSCH-ReconfRgst-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
E-PUCH-Information-768-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRast::= SEOUENCE {
    e-AGCH-Information-768-PSCH-ReconfRgst
                                                E-AGCH-Information-768-PSCH-ReconfRqst
                                                                                             OPTIONAL,
   iE-Extensions
                                            ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                           OPTIONAL,
Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Information-768-PSCH-ReconfRgst::= SEOUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-768-PSCH-ReconfRgst
E-AGCH-InformationItem-768-PSCH-ReconfRgst
                                            ::= SEOUENCE
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    e-AGCH-MaxPower
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-AGCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs } }
                                                                                                                                    OPTIONAL,
```

```
}
E-AGCH-InformationItem-768-PSCH-ReconfRost-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst::= SEQUENCE {
                                                         E-AGCH-InformationModify-768-PSCH-ReconfRqst
    e-AGCH-InformationModify-768-PSCH-ReconfRqst
                                                                                                                     OPTIONAL,
   iE-Extensions
                                                    ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs } }
   OPTIONAL,
    . . .
Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-AGCH-InformationModify-768-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-768-PSCH-ReconfRgst
E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst
                                                     ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlot
                                            TimeSlot
                                                                             OPTIONAL,
   midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768
                                                                             OPTIONAL,
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768
                                                                             OPTIONAL.
    e-AGCH-MaxPower
                                            DL-Power
                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-768-PSCH-ReconfRgst-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-Information-768-PSCH-ReconfRqst := SEQUENCE
                                            MidambleShiftAndBurstTvpe768,
   midambleShiftAndBurstTvpe768
    tdd-ChannelisationCode768
                                            TDD-ChannelisationCode768,
    e-HICH-MaxPower
                                            DL-Power,
                                            ProtocolExtensionContainer { { E-HICH-Information-768-PSCH-ReconfRgst-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
E-HICH-Information-768-PSCH-ReconfRqst-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-Information-LCR-PSCH-ReconfRgst ::= SEOUENCE {
   lTGI-Presence
                                            LTGI-Presence,
    sNPL-Reporting-Type
                                            SNPL-Reporting-Type,
   e-PUCH-Timeslot-InfoLCR
                                            E-PUCH-Timeslot-InfoLCR
                                                                         OPTIONAL,
    -- This E-PUCH Timeslot Information is for the first Frequency repetition, E-PUCH timeslot information for Frequency repetitions 2 and on,
should be defined in MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst.
                                            ProtocolExtensionContainer { { E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
```

E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UARFCNforNt CRITICALITY ignore PRESENCE optional } | EXTENSION UARFCN -- This is the UARFCN for the first Frequency repetition. Mandatory for 1.28Mcps TDD when using multiple frequencies. { ID id-MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION MultipleFreg-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst PRESENCE optional }, -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-PUCH Information is for the 2nd and beyond frequencies. . . . E-PUCH-Timeslot-InfoLCR ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlotsLCR)) OF E-PUCH-Timeslot-Item-InfoLCR E-PUCH-Timeslot-Item-InfoLCR ::= SEQUENCE { timeSlot TimeSlotLCR. midambleShiftAndBurstType MidambleShiftLCR, e-PUCH-Codelist-LCR E-PUCH-Codelist-LCR, ProtocolExtensionContainer { { E-PUCH-Timeslot-Item-InfoLCR-ExtIEs} } iE-Extensions OPTIONAL, . . . E-PUCH-Timeslot-Item-InfoLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . E-PUCH-Codelist-LCR ::= SEQUENCE (SIZE (1..maxNrOfEPUCHcodes)) OF TDD-ChannelisationCode Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE { e-AGCH-Information-LCR-PSCH-ReconfRgst E-AGCH-Information-LCR-PSCH-ReconfRgst, ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRgst-ExtIEs } } iE-Extensions OPTIONAL, . . . Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . E-AGCH-Information-LCR-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-LCR-PSCH-ReconfRqst E-AGCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE e-AGCH-ID E-AGCH-Id, timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR. first-TDD-ChannelisationCode TDD-ChannelisationCode, second-TDD-ChannelisationCode TDD-ChannelisationCode, e-AGCH-MaxPower DL-Power, iE-Extensions ProtocolExtensionContainer { { E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL, . . . E-AGCH-InformationItem-LCR-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { CRITICALITY ignore { ID id-UARFCNforNt EXTENSION UARFCN PRESENCE optional }, -- Mandatory for 1.28Mcps TDD when using multiple frequencies . . .

```
Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRast::= SEQUENCE {
    e-AGCH-InformationModify-LCR-PSCH-ReconfRqst E-AGCH-InformationModify-LCR-PSCH-ReconfRqst,
    iE-Extensions
                                                     ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL.
    . . .
Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-InformationModify-LCR-PSCH-ReconfRgst::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRgst
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst
                                                     ::= SEQUENCE {
    e-AGCH-ID
                                            E-AGCH-Id,
    timeSlotLCR
                                            TimeSlotLCR
                                                                     OPTIONAL,
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                     OPTIONAL,
    first-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    e-AGCH-MaxPower
                                            DL-Power
                                                                     OPTIONAL,
                                            ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                     EXTENSION UARFCN
                                                                                             PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
}
Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-Information-LCR-PSCH-ReconfRqst E-HICH-Information-LCR-PSCH-ReconfRqst,
                                            ProtocolExtensionContainer { { Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-HICH-Information-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationItem-LCR-PSCH-ReconfRgst
E-HICH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD
                                            E-HICH-ID-TDD,
    e-HICH-Tvpe
                                            E-HICH-Type,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode,
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    e-HICH-MaxPower
                                            DL-Power,
                                            ProtocolExtensionContainer { { E-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
```

```
E-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Extended-E-HICH-ID-TDD
                                            CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional }
   -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
   { ID id-UARFCNforNt
                                            CRITICALITY ignore
                                                                    EXTENSION UARFCN
                                                                                                 PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-InformationModify-LCR-PSCH-ReconfRqst E-HICH-InformationModify-LCR-PSCH-ReconfRqst,
    iE-Extensions
                                                    ProtocolExtensionContainer { { Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs } }
   OPTIONAL,
    . . .
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-InformationModify-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationModifyItem-LCR-PSCH-ReconfRgst
E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD
                                            E-HICH-ID-TDD,
    e-HICH-Tvpe
                                            E-HICH-Type
                                                                    OPTIONAL,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode OPTIONAL,
    timeSlotLCR
                                            TimeSlotLCR
                                                                    OPTIONAL.
    midambleShiftLCR
                                            MidambleShiftLCR
                                                                    OPTIONAL,
    e-HICH-MaxPower
                                            DL-Power
                                                                    OPTIONAL,
                                            ProtocolExtensionContainer { { E-HICH-InformationModifyItem-LCR-PSCH-ReconfRgst-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
E-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD
                                            CRITICALITY iqnore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional}
    --Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
                                            CRITICALITY ignore
    { ID id-UARFCNforNt
                                                                    EXTENSION UARFCN
                                                                                                 PRESENCE optional },
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    . . .
Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfEHICHs)) OF Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst
Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst
                                                      ::= SEQUENCE {
    e-HICH-TD-TDD
                                                    E-HICH-ID-TDD,
   iE-Extensions
                                                    ProtocolExtensionContainer { { Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRgst-ExtIEs } }
       OPTIONAL,
    . . .
}
Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                            CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional},
    { ID id-Extended-E-HICH-ID-TDD
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
    . . .
```

```
SYNC-UL-Partition-LCR ::= SEQUENCE {
    eRUCCH-SYNC-UL-codes-bitmap
                                              BIT STRING (SIZE (8)),
   iE-Extensions
                                              ProtocolExtensionContainer { { SYNC-UL-Partition-LCR-ExtIEs} }
                                                                                                                 OPTIONAL,
    . . .
}
SYNC-UL-Partition-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-
ReconfRqst
MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRgst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container
{{ MultipleFreg-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRgst}}
--Includes the 2nd through the max number of frequencies information repetitions.
MultipleFreg-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRgst NBAP-PROTOCOL-IES ::= {
    { ID id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                                            CRITICALITY ignore
                                                                                                               TYPE MultipleFreq-E-PUCH-
Timeslot-Information-LCRItem-PSCH-ReconfRqst
                                                  PRESENCE optional }
}
MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst ::= SEQUENCE {
    e-PUCH-Timeslot-InfoLCR
                                          E-PUCH-Timeslot-InfoLCR
                                                                     OPTIONAL,
   UARFCN
                                                         UARFCN.
                                                         ProtocolExtensionContainer { { MultipleFreg-E-PUCH-Timeslot-Information-LCRItem-PSCH-
   iE-Extensions
ReconfRqst-ExtIEs } }
                          OPTIONAL,
    . . .
MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRgst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
-- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE
- -
   *******
PhysicalSharedChannelReconfigurationResponse ::= SEQUENCE
                       ProtocolIE-Container
                                                  {{PhysicalSharedChannelReconfigurationResponse-IEs}},
   protocolIEs
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationResponse-Extensions}}
                                                                                                                            OPTIONAL,
    . . .
PhysicalSharedChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-CriticalityDiagnostics
                                          CRITICALITY
                                                         ignore
                                                                     TYPE
                                                                                 CriticalityDiagnostics
                                                                                                                  PRESENCE optional },
    . . .
}
PhysicalSharedChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

**ETSI** 

```
{ ID id-E-HICH-TimeOffset
                                                         CRITICALITY reject EXTENSION E-HICH-TimeOffset
    PRESENCE optional }|
    { ID id-E-HICH-TimeOffsetLCR
                                                         CRITICALITY reject EXTENSION E-HICH-TimeOffsetLCR
    PRESENCE optional }|
    { ID id-HSDSCH-Common-System-Information-ResponseFDD
                                                         CRITICALITY ignore EXTENSION HSDSCH-Common-System-Information-ResponseFDD
    PRESENCE optional }|
    { ID id-HSDSCH-Paging-System-Information-ResponseFDD
                                                         CRITICALITY iqnore EXTENSION HSDSCH-Paging-System-Information-ResponseFDD
    PRESENCE optional }
    { ID id-UARFCNforNt
                                                         CRITICALITY reject EXTENSION UARFCN PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This is the UARFCN for the first Frequency repetition.
    { ID id-E-HICH-TimeOffset-Extension
                                                         CRITICALITY reject EXTENSION E-HICH-TimeOffset-ExtensionLCR
    PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-HICH-TimeOffset-ExtensionLCR is the E-HICH Time Offset LCR for the 2nd
and beyond frequencies.
    . . .
E-HICH-TimeOffset-ExtensionLCR ::= SEOUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{{ Multiple-E-HICH-TimeOffsetLCR }}
Multiple-E-HICH-TimeOffsetLCR NBAP-PROTOCOL-IES ::= {
    { ID id-MultipleFreq-E-HICH-TimeOffsetLCR CRITICALITY reject TYPE MultipleFreq-E-HICH-TimeOffsetLCR PRESENCE optional }
MultipleFreq-E-HICH-TimeOffsetLCR ::= SEQUENCE {
   e-HICH-TimeOffsetLCR
                                         E-HICH-TimeOffsetLCR,
   11ARFCN
                                         UARFCN,
   iE-Extensions
                                         ProtocolExtensionContainer { { MultipleFreq-E-HICH-TimeOffsetLCR-ExtIEs } } OPTIONAL,
    . . .
MultipleFreq-E-HICH-TimeOffsetLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  - -
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
- -
      PhysicalSharedChannelReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                      ProtocolIE-Container
                                                 {{PhysicalSharedChannelReconfigurationFailure-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationFailure-Extensions}}
                                                                                                                          OPTIONAL,
    . . .
PhysicalSharedChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-PSCH-ReconfFailure CRITICALITY ignore TYPE CauseLevel-PSCH-ReconfFailure
                                                                                                              PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
                                             CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                              PRESENCE optional },
    . . .
}
PhysicalSharedChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
CauseLevel-PSCH-ReconfFailure ::= CHOICE {
    generalCause
                                                 GeneralCauseList-PSCH-ReconfFailure.
    setSpecificCause
                                                 SetSpecificCauseList-PSCH-ReconfFailureTDD,
    . . . .
    extension-CauseLevel-PSCH-ReconfFailure
                                                 Extension-CauseLevel-PSCH-ReconfFailure
۱
GeneralCauseList-PSCH-ReconfFailure ::= SEQUENCE {
                                Cause,
    cause
    iE-Extensions
                                ProtocolExtensionContainer { { GeneralCauseItem-PSCH-ReconfFailure-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
3
GeneralCauseItem-PSCH-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SetSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE {
    unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD
                                                                                                                        OPTIONAL,
    unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD
                                                                                                                        OPTIONAL,
                                                    ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPDSCHSets)) OF ProtocolIE-Single-Container {{ Unsuccessful-
PDSCHSetItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
           id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
    { ID
mandatory }
}
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   pDSCHSet-ID
                            PDSCHSet-ID,
    cause
                            Cause,
                            ProtocolExtensionContainer { {Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPUSCHSets)) OF ProtocolIE-Single-Container {{ Unsuccessful-
PUSCHSetItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
```

```
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDDPRESENCE
   { ID
mandatory }
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
                          PUSCHSet-ID,
   pUSCHSet-ID
   cause
                          Cause,
   iE-Extensions
                          ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} }
                                                                                                               OPTIONAL,
    . . .
Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Extension-CauseLevel-PSCH-ReconfFailure ::= ProtocolIE-Single-Container {{ Extension-CauseLevel-PSCH-ReconfFailureIE }}
Extension-CauseLevel-PSCH-ReconfFailureIE NBAP-PROTOCOL-IES ::= {
    { ID id-UARFCNSpecificCauseList CRITICALITY ignore TYPE UARFCNSpecificCauseList-PSCH-ReconfFailureTDD PRESENCE mandatory }
}
UARFCNSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Unsuccessful-
UARFCNItemIE-PSCH-ReconfFailureTDD }}
Unsuccessful-UARFCNItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
   { ID id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD PRESENCE
mandatory }
}
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
   UARFCN
                          UARFCN,
   -- Used for 1.28 Mcps TDD to indicate the carrier on which HSDPA or HSUPA resources configuration failure occurs.
   cause
                          Cause,
                          ProtocolExtensionContainer { {Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs} }
                                                                                                                OPTIONAL,
   iE-Extensions
   . . .
Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
          id-HS-Cause CRITICALITY ignore
                                                                               optional}|
   { ID
                                             EXTENSION Cause
                                                                    PRESENCE
   -- Used to indicate the cause of HSDPA related configuration failure.
   { ID
         id-E-Cause CRITICALITY ignore
                                                                               optional},
                                             EXTENSION Cause
                                                                    PRESENCE
   -- Used to indicate the cause of E-DCH related configuration failure.
   . . .
  -- RESET REOUEST
- -
  ResetRequest ::= SEQUENCE {
```

```
ProtocolIE-Container
                                                         {{ResetRequest-IEs}},
    protocolIEs
                            ProtocolExtensionContainer {{ResetRequest-Extensions}}
    protocolExtensions
                                                                                          OPTIONAL,
    . . .
ResetRequest-IEs NBAP-PROTOCOL-IES ::= {
    {ID id-ResetIndicator
                                 CRITICALITY iqnore
                                                         TYPE
                                                                 ResetIndicator
                                                                                      PRESENCE
                                                                                                  mandatory },
    . . .
ResetRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ResetIndicator ::= CHOICE {
    communicationContext
                                     CommunicationContextList-Reset,
    communicationControlPort
                                     CommunicationControlPortList-Reset,
    nodeB
                                     NULL,
    . . .
CommunicationContextList-Reset ::= SEQUENCE
    communicationContextInfoList-Reset
                                             CommunicationContextInfoList-Reset,
    iE-Extensions
                                             ProtocolExtensionContainer { {CommunicationContextItem-Reset-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext))
                                                                                          OF ProtocolIE-Single-Container {{
CommunicationContextInfoItemIE-Reset } }
CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationContextInfoItem-Reset
                                                     CRITICALITY reject
                                                                              TYPE CommunicationContextInfoItem-Reset
                                                                                                                         PRESENCE mandatory }
}
CommunicationContextInfoItem-Reset ::= SEQUENCE {
    communicationContextType-Reset
                                             CommunicationContextType-Reset,
    iE-Extensions
                                             ProtocolExtensionContainer { { CommunicationContextInfoItem-Reset-ExtIEs } }
                                                                                                                               OPTIONAL,
```

```
. . .
}
CommunicationContextInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CommunicationContextType-Reset ::= CHOICE {
    cRNC-CommunicationContextID
                                          CRNC-CommunicationContextID,
   nodeB-CommunicationContextID
                                          NodeB-CommunicationContextID,
    . . .
}
CommunicationControlPortList-Reset ::= SEOUENCE {
    communicationControlPortInfoList-Reset
                                              CommunicationControlPortInfoList-Reset,
   iE-Extensions
                                              ProtocolExtensionContainer { {CommunicationControlPortItem-Reset-ExtIEs} }
                                                                                                                            OPTIONAL,
    . . .
}
CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Single-Container
{{CommunicationControlPortInfoItemIE-Reset }}
CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPortInfoItem-Reset
                                                      CRITICALITY reject
                                                                              TYPE CommunicationControlPortInfoItem-Reset
                                                                                                                            PRESENCE mandatory }
}
CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
   communicationControlPortID
                                       CommunicationControlPortID,
                                       ProtocolExtensionContainer { {CommunicationControlPortInfoItem-Reset-ExtIEs } OPTIONAL,
   iE-Extensions
    . . .
ļ
CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
- -
-- RESET RESPONSE
- -
   ResetResponse ::= SEQUENCE {
                         Protocol IE-Container
                                                    {{ResetResponse-IEs}},
   protocolIEs
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{ResetResponse-Extensions}}
                                                                                       OPTIONAL,
   . . .
}
ResetResponse-IEs NBAP-PROTOCOL-IES ::=
   {ID id-CriticalityDiagnostics
                                    CRITICALITY
                                                   ignore
                                                              TYPE
                                                                     CriticalityDiagnostics
                                                                                                            PRESENCE optional },
   . . .
ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
     _ _
- -
-- INFORMATION EXCHANGE INITIATION REQUEST
- -
  InformationExchangeInitiationRequest ::= SEQUENCE {
                         ProtocolIE-Container
                                                   {{InformationExchangeInitiationReguest-IEs}},
   protocolIEs
                                                   {{InformationExchangeInitiationReguest-Extensions}}
   protocolExtensions
                         ProtocolExtensionContainer
                                                                                                            OPTIONAL,
   . . .
}
InformationExchangeInitiationRequest-IEs NBAP-PROTOCOL-IES ::= ·
     ID id-InformationExchangeID
                                                   CRITICALITY reject
                                                                         TYPE InformationExchangeID
                                                                                                                    PRESENCE mandatory
}|
    ID id-InformationExchangeObjectType-InfEx-Rqst
                                                   CRITICALITY reject
                                                                         TYPE InformationExchangeObjectType-InfEx-Rqst PRESENCE mandatory
}|
    ID id-InformationType
                                                   CRITICALITY reject
                                                                         TYPE InformationType
                                                                                                                    PRESENCE mandatory
}|
    { ID id-InformationReportCharacteristics
                                                   CRITICALITY reject
                                                                         TYPE InformationReportCharacteristics
                                                                                                                    PRESENCE mandatory
},
    . . .
InformationExchangeInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeObjectType-InfEx-Rqst ::= CHOICE {
   cell
                                Cell-InfEx-Rqst,
   . . .
```

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Cell-InfEx-Rqst ::= SEQUENCE { c-ID C-ID. iE-Extensions ProtocolExtensionContainer { { CellItem-InfEx-Rgst-ExtIEs } } OPTIONAL. . . . CellItem-InfEx-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . - --- INFORMATION EXCHANGE INITIATION RESPONSE - -InformationExchangeInitiationResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{InformationExchangeInitiationResponse-IEs}}, {{InformationExchangeInitiationResponse-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . } InformationExchangeInitiationResponse-IES NBAP-PROTOCOL-IES ::= { ID id-InformationExchangeID CRITICALITY ignore TYPE InformationExchangeID PRESENCE mandatory } | ID id-InformationExchangeObjectType-InfEx-Rsp CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rsp PRESENCE optional }| { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } InformationExchangeInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . InformationExchangeObjectType-InfEx-Rsp ::= CHOICE { cell Cell-InfEx-Rsp, . . . } Cell-InfEx-Rsp ::= SEQUENCE { requestedDataValue RequestedDataValue, ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs } } iE-Extensions OPTIONAL, . . . CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . - --- INFORMATION EXCHANGE INITIATION FAILURE \_ \_ 

```
InformationExchangeInitiationFailure ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                     {{InformationExchangeInitiationFailure-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{InformationExchangeInitiationFailure-Extensions}}
                                                                                                                OPTIONAL.
    . . .
3
InformationExchangeInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID
                                      CRITICALITY ignore
                                                                TYPE InformationExchangeID
                                                                                                              PRESENCE mandatory
     ID id-Cause
                                      CRITICALITY iqnore
                                                                TYPE Cause
                                                                                                              PRESENCE mandatory
     ID id-CriticalityDiagnostics
                                      CRITICALITY ignore
                                                                TYPE CriticalityDiagnostics
                                                                                                              PRESENCE optional },
    . . .
}
InformationExchangeInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
      - -
-- INFORMATION REPORT
- -
  InformationReport ::= SEOUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{InformationReport-IEs}},
                          ProtocolExtensionContainer {{InformationReport-Extensions}}
   protocolExtensions
                                                                                           OPTIONAL,
    . . .
}
InformationReport-IES NBAP-PROTOCOL-IES ::= {
     ID id-InformationExchangeID
                                                     CRITICALITY ignore TYPE InformationExchangeID
                                                                                                                      PRESENCE mandatory } |
     ID id-InformationExchangeObjectType-InfEx-Rprt
                                                     CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rprt
                                                                                                                      PRESENCE mandatory },
    . . .
}
InformationReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
   cell
                                  Cell-Inf-Rprt,
    . . .
Cell-Inf-Rprt ::= SEQUENCE {
   requestedDataValueInformation
                                  RequestedDataValueInformation,
   iE-Extensions
                                  ProtocolExtensionContainer {{ CellItem-Inf-Rprt-ExtIEs }}
                                                                                                              OPTIONAL,
    . . .
CellItem-Inf-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

-- INFORMATION EXCHANGE TERMINATION REQUEST InformationExchangeTerminationRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{InformationExchangeTerminationRequest-IEs}}, {{InformationExchangeTerminationRequest-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . } InformationExchangeTerminationRequest-IEs NBAP-PROTOCOL-IES ::= { { ID id-InformationExchangeID InformationExchangeID PRESENCE mandatory }, CRITICALITY ignore TYPE . . . } InformationExchangeTerminationReguest-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- INFORMATION EXCHANGE FAILURE INDICATION InformationExchangeFailureIndication ::= SEQUENCE { {{InformationExchangeFailureIndication-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}} OPTIONAL, . . . } InformationExchangeFailureIndication-IEs NBAP-PROTOCOL-IES ::= { ID id-InformationExchangeID CRITICALITY ignore TYPE InformationExchangeID PRESENCE mandatory } | ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }, . . . } InformationExchangeFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - -CELL SYNCHRONISATION INITIATION REQUEST TDD - -CellSynchronisationInitiationRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellSynchronisationInitiationRequestTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{CellSynchronisationInitiationRequestTDD-Extensions}} OPTIONAL, . . .

```
CellSynchronisationInitiationRequestTDD-IES NBAP-PROTOCOL-IES ::= {
     ID
           id-C-ID
                                            CRITICALITY
                                                            reject
                                                                        TYPE C-ID
                                                                                                                            PRESENCE mandatory
     ID
           id-cellSyncBurstRepetitionPeriod
                                                        CRITICALITY
                                                                        reject
                                                                                    TYPE
                                                                                            CellSyncBurstRepetitionPeriod
                                                                                                                            PRESENCE mandatory
                                                                                                                                                 } |
           id-timeslotInfo-CellSyncInitiationRgstTDD CRITICALITY
                                                                                            TimeslotInfo-CellSyncInitiationRqstTDD
                                                                        reject
                                                                                    TYPE
                                                                                                                                     PRESENCE
     ID
    optional }| -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
          id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD
     ID
                                                                    CRITICALITY
                                                                                    reject
                                                                                                TYPE
                                                                                                                    CellSyncBurstTransInit-
CellSyncInitiationRqstTDD
                               PRESENCE
                                           optional
                                                       } -- Applicable to 3.84Mcps TDD only
    { ID id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD
                                                                        CRITICALITY
                                                                                        reiect
                                                                                                                    TYPE CellSyncBurstMeasureInit-
CellSyncInitiationRqstTDD
                                PRESENCE
                                           optional
                                                      }, -- Applicable to 3.84Mcps TDD only
    . . .
}
CellSynchronisationInitiationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
     ID id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD
                                                                    CRITICALITY reject EXTENSION SYNCDlCodeId-TransInitLCR-
CellSyncInitiationRgstTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only
    { ID id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD CRITICALITY reject EXTENSION SYNCDlCodeId-MeasureInitLCR-
CellSyncInitiationRgstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
    . . .
TimeslotInfo-CellSyncInitiationRqstTDD::= SEQUENCE (SIZE (1..15)) OF TimeSlot
CellSyncBurstTransInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBTransmissionID
                                            CSBTransmissionID,
    sfn
                                            SFN,
    cellSyncBurstCode
                                            CellSyncBurstCode,
    cellSyncBurstCodeShift
                                            CellSyncBurstCodeShift,
    initialDLTransPower
                                            DL-Power,
                                            ProtocolExtensionContainer { { CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD::= SEQUENCE {
    cSBMeasurementID
                                            CSBMeasurementID,
    cellSyncBurstCode
                                            CellSyncBurstCode,
    cellSyncBurstCodeShift
                                            CellSyncBurstCodeShift,
                                            SynchronisationReportType,
    synchronisationReportType
                                            SFN
                                                                                    OPTIONAL,
    sfn
    synchronisationReportCharacteristics
                                            SynchronisationReportCharacteristics,
                                            ProtocolExtensionContainer { { CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD::= SEQUENCE {
   cSBTransmissionID
                                        CSBTransmissionID,
   sfn
                                        SFN.
   UARFCN
                                        UARFCN,
   sYNCD1CodeId
                                        SYNCDlCodeId,
   dwPCH-Power
                                        DwPCH-Power,
                                        ProtocolExtensionContainer { { SYNCDlCodeId-TransInitLCR-CellSyncInitiationRgstTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRgstTDD::= SEQUENCE {
   cSBMeasurementID
                                        CSBMeasurementID,
   sfn
                                        SFN
                                                                             OPTIONAL,
   uARFCN
                                        UARFCN,
   sYNCDlCodeId
                                        SYNCDlCodeId,
   synchronisationReportType
                                        SynchronisationReportType,
   synchronisationReportCharacteristics
                                        SynchronisationReportCharacteristics,
                                        ProtocolExtensionContainer { { SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
   . . .
SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CELL SYNCHRONISATION INITIATION RESPONSE TDD
- -
- -
  CellSynchronisationInitiationResponseTDD ::= SEQUENCE {
                                                   {{CellSynchronisationInitiationResponseTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer
                                                  {{CellSynchronisationInitiationResponseTDD-Extensions}}
                                                                                                          OPTIONAL,
   . . .
}
CellSynchronisationInitiationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CellSynchronisationInitiationResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics
                                        CRITICALITY ignore
                                                              TYPE CriticalityDiagnostics
                                                                                                            PRESENCE optional },
   . . .
}
  - -
```

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-- CELL SYNCHRONISATION INITIATION FAILURE TDD CellSynchronisationInitiationFailureTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellSynchronisationInitiationFailureTDD-IEs}}, {{CellSynchronisationInitiationFailureTDD-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . } CellSynchronisationInitiationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } CellSynchronisationInitiationFailureTDD-IEs NBAP-PROTOCOL-IES ::= { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } | ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, \*\*\*\*\*\*\*\*\* CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD - -CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE protocolIEs ProtocolIE-Container {CellSynchronisationReconfigurationReguestTDD-IEs}}, ProtocolExtensionContainer {{CellSynchronisationReconfigurationRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . } CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= ID id-C-ID CRITICALITY C-ID reject TYPE PRESENCE mandatory ID id-TimeSlot CRITICALITY reject TYPE TimeSlot PRESENCE mandatorv }| -- Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it. ID id-NCyclesPerSFNperiod CRITICALITY TYPE NCvclesPerSFNperiod reject PRESENCE mandatory }| id-NRepetitionsPerCyclePeriod CRITICALITY NRepetitionsPerCyclePeriod PRESENCE mandatory ΤD reject TYPE }| ID id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD } -- Applicable to 3.84Mcps TDD only PRESENCE optional { ID id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasInfo-CellSyncReconfRqstTDD PRESENCE optional }, -- Applicable to 3.84Mcps TDD only . . . CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { { ID id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD CRITICALITY reject EXTENSION NSubCyclesPerCyclePeriod PRESENCE optional } -- Applicable to 1.28Mcps TDD only { ID id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD CRITICALITY reject EXTENSION SYNCDlCodeIdTransReconfInfoLCR-PRESENCE optional }| CellSyncReconfRqstTDD -- Applicable to 1.28Mcps TDD only { ID id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD CRITICALITY reject EXTENSION SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only . . .

```
CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-
CellSyncReconfRqstTDD
CellSyncBurstTransInfoItem-CellSyncReconfRgstTDD ::= SEQUENCE {
    cSBTransmissionID
                                                CSBTransmissionID,
    syncFrameNumberToTransmit
                                                SvncFrameNumber,
    cellSyncBurstCode
                                                CellSyncBurstCode
                                                                            OPTIONAL,
                                                CellSyncBurstCodeShift
    cellSyncBurstCodeShift
                                                                            OPTIONAL,
    dlTransPower
                                                DL-Power
                                                                            OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    . . .
CellSyncBurstTransInfoItem-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
    cellSyncBurstMeasInfoList-CellSyncReconfRqstTDD
                                                        CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
    synchronisationReportType
                                                         SvnchronisationReportTypeIE
                                                                                                 OPTIONAL,
    synchronisationReportCharacteristics
                                                        SynchronisationReportCharacteristicsIE OPTIONAL,
    iE-Extensions
                                                         ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    . . .
CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD ::= ProtocolIE-Single-Container {{ CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD }}
CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
     ID id-CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD CRITICALITY reject
                                                                                    TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD
    PRESENCE mandatory }
}
SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}
SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
    { ID id-SynchronisationReportType
                                                        CRITICALITY reject TYPE SynchronisationReportType
                                                                                                                                       PRESENCE
    mandatory }
SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}
SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
     ID id-SynchronisationReportCharacteristics
                                                        CRITICALITY reject TYPE SynchronisationReportCharacteristics
                                                                                                                              PRESENCE mandatory
```

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CellSyncBurstMeasInfoListIE-CellSyncReconfRgstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD CellSyncBurstMeasInfoItem-CellSyncReconfRgstTDD ::= SEQUENCE { SyncFrameNumber, syncFrameNrToReceive syncBurstInfo CellSyncBurstInfoList-CellSyncReconfRqstTDD, iE-Extensions ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs } } OPTIONAL, . . . CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . CellSyncBurstInfoList-CellSyncReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRgstTDD CellSyncBurstInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE { cSBMeasurementID CSBMeasurementID, cellSyncBurstCode CellSyncBurstCode, cellSyncBurstCodeShift CellSyncBurstCodeShift, iE-Extensions ProtocolExtensionContainer { { CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL, . . . CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSyncFramesLCR)) OF SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRqstTDD SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE { CSBTransmissionID, cSBTransmissionID svncFrameNumberforTransmit SyncFrameNumber, UARFCN UARFCN, sYNCDlCodeId SYNCDlCodeId OPTIONAL. dwPCH-Power DwPCH-Power OPTIONAL, ProtocolExtensionContainer { { SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD::= SEQUENCE { sYNCDlCodeIdMeasInfoList SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD, synchronisationReportType SynchronisationReportType OPTIONAL, synchronisationReportCharacteristics SynchronisationReportCharacteristics OPTIONAL, iE-Extensions { { SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL, ProtocolExtensionContainer

```
. . .
}
SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD::= SEQUENCE (SIZE (1.. maxNrOfSyncDLCodesLCR)) OF SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
    syncFrameNrToReceive
                                         SyncFrameNumber,
    sYNCDlCodeIdInfoLCR
                                         SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD,
                                         ProtocolExtensionContainer { { SYNCDlCodeIdMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
J
SYNCDlCodeIdMeasInfoItem-CellSyncReconfRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCR-
CellSyncReconfRqstTDD
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
    cSBMeasurementID
                                             CSBMeasurementID,
   sYNCDlCodeId
                                             SYNCDlCodeId,
   UARFCN
                                             UARFCN,
   propagationDelayCompensation
                                             TimingAdjustmentValueLCR
                                                                            OPTIONAL,
                                             ProtocolExtensionContainer { { SYNCDlCodeIdInfoItemLCR-CellSyncReconfRgstTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    _ _
  CELL SYNCHRONISATION RECONFIGURATION RESPONSE TDD
- -
  CellSynchronisationReconfigurationResponseTDD ::= SEQUENCE {
                                                     {{CellSynchronisationReconfigurationResponseTDD-IEs}},
   protocolIEs
                 ProtocolIE-Container
                          ProtocolExtensionContainer {{CellSynchronisationReconfigurationResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL.
    . . .
}
CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CellSynchronisationReconfigurationResponseTDD-IES NBAP-PROTOCOL-IES ::= {
```

```
id-CriticalityDiagnostics
   { ID
                                                  CRITICALITY
                                                                           TYPE
                                                                                 CriticalityDiagnostics
                                                                                                            PRESENCE optional },
                                                                iqnore
    . . .
    - -
-- CELL SYNCHRONISATION RECONFIGURATION FAILURE TDD
     CellSynchronisationReconfigurationFailureTDD ::= SEQUENCE
                                                  {{CellSynchronisationReconfigurationFailureTDD-IEs}},
   protocolIEs
                        ProtocolIE-Container
   protocolExtensions
                        ProtocolExtensionContainer {{CellSynchronisationReconfigurationFailureTDD-Extensions}}
                                                                                                          OPTIONAL,
   . . .
}
CellSynchronisationReconfigurationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
}
CellSynchronisationReconfigurationFailureTDD-IES NBAP-PROTOCOL-IES ::= {
     ID id-Cause
                                       CRITICALITY ignore
                                                                                                       PRESENCE mandatory } |
                                                            TYPE Cause
    ID id-CriticalityDiagnostics
                                                                                                       PRESENCE optional },
                                       CRITICALITY iqnore
                                                            TYPE CriticalityDiagnostics
   . . .
  - -
  CELL SYNCHRONISATION ADJUSTMENT REQUEST TDD
- -
CellSynchronisationAdjustmentRequestTDD ::= SEQUENCE {
                        ProtocolIE-Container
                                                  {{CellSynchronisationAdjustmentRequestTDD-IEs}},
   protocolIEs
   protocolExtensions
                        ProtocolExtensionContainer
                                                {{CellSynchronisationAdjustmentRequestTDD-Extensions}}
                                                                                                      OPTIONAL,
   . . .
}
CellSynchronisationAdjustmentRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
CellSynchronisationAdjustmentRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CellAdjustmentInfo-SyncAdjustmentRgstTDD CRITICALITY iqnore TYPE CellAdjustmentInfo-SyncAdjustmentRgstTDD PRESENCE mandatory },
   { ID
   . . .
CellAdjustmentInfo-SyncAdjustmentRqstTDD::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ CellAdjustmentInfoItemIE-
SyncAdjustmntRqstTDD }}
CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD NBAP-PROTOCOL-IES ::= {
   { ID id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD CRITICALITY ignore TYPE CellAdjustmentInfoItem-SyncAdjustmentRqstTDD PRESENCE
mandatory }
ι
```

. . .

```
CellAdjustmentInfoItem-SyncAdjustmentRqstTDD ::= SEQUENCE {
   c-ID
                                       C-ID.
   frameAdjustmentValue
                                       FrameAdjustmentValue
                                                                OPTIONAL,
   timingAdjustmentValue
                                       TimingAdjustmentValue
                                                                OPTIONAL,
   dLTransPower
                                       DL-Power
                                                                OPTIONAL, -- Applicable to 3.84Mcps TDD only
   sfn
                                       SFN
                                                                OPTIONAL,
   iE-Extensions
                                       ProtocolExtensionContainer { { CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-ExtIEs } }
                                                                                                                       OPTIONAL,
   . . .
CellAdjustmentInfoItem-SyncAdjustmntRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-DwPCH-Power
                                   CRITICALITY ignore EXTENSION DwPCH-Power
                                                                                     PRESENCE optional }|
   -- Applicable to 1.28Mcps TDD only
   { ID id-TimingAdjustmentValueLCR
                                   CRITICALITY ignore EXTENSION TimingAdjustmentValueLCR PRESENCE optional },
   -- Applicable to 1.28Mcps TDD only
   . . .
    - -
- -
  CELL SYNCHRONISATION ADJUSTMENT RESPONSE TDD
- -
  CellSynchronisationAdjustmentResponseTDD ::= SEQUENCE
                                                  {{CellSynchronisationAdjustmentResponseTDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
   protocolExtensions
                         ProtocolExtensionContainer
                                                 {{CellSynchronisationAdjustmentResponseTDD-Extensions}}
                                                                                                       OPTIONAL,
   . . .
}
CellSynchronisationAdjustmentResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID
          id-CriticalityDiagnostics
                                          CRITICALITY
                                                         ignore
                                                                   TYPE
                                                                           CriticalityDiagnostics
                                                                                                                 PRESENCE optional },
   . . .
    _ _
  CELL SYNCHRONISATION ADJUSTMENT FAILURE TDD
_ _
  CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                                  {{CellSynchronisationAdjustmentFailureTDD-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer
                                                 {{CellSynchronisationAdjustmentFailureTDD-Extensions}}
                                                                                                      OPTIONAL,
   . . .
}
CellSynchronisationAdjustmentFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```
CellSynchronisationAdjustmentFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
      ΙD
           id-CauseLevel-SyncAdjustmntFailureTDD CRITICALITY ignore
                                                                             TYPE
                                                                                      CauseLevel-SyncAdjustmntFailureTDD
                                                                                                                            PRESENCE mandatory }|
    { ID
            id-CriticalityDiagnostics
                                                     CRITICALITY ignore
                                                                             TYPE
                                                                                      CriticalityDiagnostics
                                                                                                                            PRESENCE optional },
    . . .
CauseLevel-SyncAdjustmntFailureTDD ::= CHOICE {
    generalCause
                            GeneralCauseList-SyncAdjustmntFailureTDD,
                            CellSpecificCauseList-SyncAdjustmntFailureTDD,
    cellSpecificCause
    . . .
3
GeneralCauseList-SyncAdjustmntFailureTDD::= SEQUENCE {
    cause
                                                 Cause,
                                                 ProtocolExtensionContainer { { GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
GeneralCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CellSpecificCauseList-SyncAdjustmntFailureTDD ::= SEQUENCE {
    unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD
                                                                         Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD,
                                                 ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
CellSpecificCauseList-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-cell-InformationRespList-SyncAdjustmntFailureTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB))
                                                                                                                      OF ProtocolIE-Single-Container
{{ Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD }}
Unsuccessful-cell-InformationRespItemIE-SyncAdjustmntFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                                                      CRITICALITY
                                                                                                                       ignore
                                                                                                                                  TYPE Unsuccessful-
cell-InformationRespItem-SyncAdjustmntFailureTDD
                                                                     mandatory},
                                                         PRESENCE
    . . .
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD::= SEQUENCE {
    c-ID
                                                 C-ID,
    cause
                                                 Cause,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-
ExtIEs } }
                OPTIONAL,
    . . .
}
Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
_ _
  CELL SYNCHRONISATION TERMINATION REQUEST TDD
- -
- -
  CellSynchronisationTerminationRequestTDD ::= SEQUENCE {
                       ProtocolIE-Container
                                              {{CellSynchronisationTerminationRequestTDD-IEs}},
   protocolIEs
   protocolExtensions
                       ProtocolExtensionContainer {{CellSynchronisationTerminationRequestTDD-Extensions}}
                                                                                                OPTIONAL,
   . . .
}
CellSynchronisationTerminationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
CellSynchronisationTerminationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    ID
         id-C-ID
                                    CRITICALITY
                                                 ignore
                                                           TYPE
                                                                  C-ID
                                                                                                       PRESENCE mandatory
    ТD
         id-CSBTransmissionID
                                    CRITICALITY
                                                 ignore
                                                           TYPE
                                                                  CSBTransmissionID
                                                                                                       PRESENCE optional
                                                                                                                        }|
    ID
         id-CSBMeasurementID
                                                           TYPE
                                    CRITICALITY
                                                 ignore
                                                                  CSBMeasurementID
                                                                                                       PRESENCE optional
                                                                                                                        },
   . . .
    - -
-- CELL SYNCHRONISATION FAILURE INDICATION TDD
_ _
         CellSynchronisationFailureIndicationTDD ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                              {{CellSynchronisationFailureIndicationTDD-IEs}},
                                             {{CellSynchronisationFailureIndicationTDD-Extensions}}
   protocolExtensions
                       ProtocolExtensionContainer
                                                                                               OPTIONAL,
   . . .
CellSynchronisationFailureIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
CellSynchronisationFailureIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
    ID
         id-C-ID
                                                                  C-ID
                                                                                                       PRESENCE mandatory
                                    CRITICALITY
                                                 ignore
                                                           TYPE
         id-CSBTransmissionID
                                                                  CSBTransmissionID
                                                                                                       PRESENCE optional
    ΤD
                                    CRITICALITY
                                                 ignore
                                                           TYPE
    ID
         id-CSBMeasurementID
                                                           TYPE
                                                                  CSBMeasurementID
                                                                                                       PRESENCE optional
                                    CRITICALITY
                                                 ignore
    ID
         id-Cause
                                    CRITICALITY
                                                 ignore
                                                           TYPE
                                                                  Cause
                                                                                                       PRESENCE mandatory
                                                                                                                        }.
   . . .
  - -
- -
  CELL SYNCHRONISATION REPORT TDD
_ _
```

CellSynchronisationReportTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CellSynchronisationReportTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{CellSynchronisationReportTDD-Extensions}} OPTIONAL, . . . 3 CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-CellSyncInfo-CellSyncReprtTDD CRITICALITY ignore TYPE CellSyncInfo-CellSyncReprtTDD PRESENCE mandatory }, . . . CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF CellSyncInfoItemIE-CellSyncReprtTDD CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE { c-ID-CellSyncReprtTDD C-ID-IE-CellSyncReprtTDD, syncReportType-CellSyncReprtTDD SyncReportTypeIE-CellSyncReprtTDD OPTIONAL. . . . C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }} C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= { { ID id-C-ID CRITICALITY ignore TYPE C-ID PRESENCE mandatory } SyncReportTypeIE-CellSyncReprtTDD::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }} SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= { { ID id-SyncReportType-CellSyncReprtTDD CRITICALITY ignore TYPE SyncReportType-CellSyncReprtTDD PRESENCE mandatory } SyncReportType-CellSyncReprtTDD ::= CHOICE intStdPhSyncInfo-CellSyncReprtTDD IntStdPhCellSyncInfo-CellSyncReprtTDD, lateEntrantCell NULL, frequencyAcquisition NULL, . . . IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE cellSvncBurstMeasuredInfo CellSyncBurstMeasInfoList-CellSyncReprtTDD, iE-Extensions ProtocolExtensionContainer { { IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs } } OPTIONAL, . . . IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-AccumulatedClockupdate-CellSyncReprtTDD CRITICALITY ignore EXTENSION TimingAdjustmentValue PRESENCE optional } ID id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD CRITICALITY ignore EXTENSION SyncDLCodeIdsMeasInfoList-CellSyncReprtTDDPRESENCE optional }, -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.

```
. . .
CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD --
Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
    sFN
                                             SFN,
    cellSyncBurstInfo-CellSyncReprtTDD
                                            SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
                                            ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
    cellSyncBurstAvailable
                                CellSyncBurstAvailable-CellSyncReprtTDD,
    cellSyncBurstNotAvailable
                                NULL,
    . . .
CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
    cellSyncBurstTiming
                                CellSyncBurstTiming,
    cellSyncBurstSIR
                                CellSyncBurstSIR,
                                ProtocolExtensionContainer { { CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD
-- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE
    sFN
                                            SFN,
    syncDLCodeIdInfo-CellSyncReprtTDD
                                            SyncDLCodeIdInfo-CellSyncReprtTDD,
                                            ProtocolExtensionContainer { { SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeIdInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptionsperSyncFrameLCR)) OF SyncDLCodeIdItem-CellSyncReprtTDD
SyncDLCodeIdItem-CellSyncReprtTDD ::= CHOICE {
    syncDLCodeIdAvailable
                                        SyncDLCodeIdAvailable-CellSyncReprtTDD,
    syncDLCodeIDNotAvailable
                                        NULL,
    . . .
```

```
SyncDLCodeIdAvailable-CellSyncReprtTDD ::= SEQUENCE {
    syncDLCodeIdTiming
                              CellSyncBurstTimingLCR,
    syncDLCodeIdSIR
                              CellSyncBurstSIR,
                              ProtocolExtensionContainer { { SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs } }
   iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     _ _
-- BEARER REARRANGEMENT INDICATION
  - -
BearerRearrangementIndication ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {BearerRearrangementIndication-IEs}},
                                  ProtocolExtensionContainer {{BearerRearrangementIndication-Extensions}}
                                                                                                                        OPTIONAL,
   protocolExtensions
    . . .
BearerRearrangementIndication-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                                     CRITICALITY ignore TYPE CRNC-CommunicationContextID
                                                                                                                       PRESENCE mandatory }
     ID id-SignallingBearerRequestIndicator
                                                     CRITICALITY ignore TYPE SignallingBearerRequestIndicator
                                                                                                                       PRESENCE optional
     ID id-DCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                       PRESENCE optional
    { ID id-DSCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore TYPE DSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                       PRESENCE optional
    -- TDD only.
    { ID id-USCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                       PRESENCE optional }
    -- TDD only.
    { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore TYPE HSDSCH-RearrangeList-Bearer-RearrangeInd
                                                                                                                       PRESENCE optional },
    . . .
BearerRearrangementIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-RearrangeList-Bearer-RearrangeInd
                                                     CRITICALITY ignore EXTENSION E-DCH-RearrangeList-Bearer-RearrangeInd PRESENCE optional },
    . . .
}
DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-RearrangeItem-Bearer-RearrangeInd
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEOUENCE
   dCH-ID
                                                 DCH-ID,
   iE-Extensions
                                                 ProtocolExtensionContainer { { DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd DSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { dSCH-ID DSCH-ID. iE-Extensions ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } } OPTIONAL. . . . DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { uSCH-ID USCH-ID, ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } } iE-Extensions OPTIONAL, . . . USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . HSDSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-RearrangeItem-Bearer-RearrangeInd HSDSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { hsDSCH-MACdFlow-ID HSDSCH-MACdFlow-ID, ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } iE-Extensions OPTIONAL, . . . HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF E-DCH-RearrangeItem-Bearer-RearrangeInd E-DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID, ProtocolExtensionContainer { { E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs } } iE-Extensions OPTIONAL, . . . E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { - --- RADIO LINK ACTIVATION COMMAND FDD 

```
RadioLinkActivationCommandFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                     {{RadioLinkActivationCommandFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer
                                                     {{RadioLinkActivationCommandFDD-Extensions}}
                                                                                                                  OPTIONAL
   . . .
}
RadioLinkActivationCommandFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-NodeB-CommunicationContextID
                                                            CRITICALITY ignore TYPE
                                                                                      NodeB-CommunicationContextID
   PRESENCE
              mandatory }|
   { ID id-DelayedActivationList-RL-ActivationCmdFDD
                                                            CRITICALITY ignore TYPE
                                                                                       DelayedActivationInformationList-RL-ActivationCmdFDD
       PRESENCE mandatory },
   . . .
٦
RadioLinkActivationCommandFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
DelayedActivationInformationList-RL-ActivationCmdFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
     DelayedActivationInformation-RL-ActivationCmdFDD-IEs } }
DelayedActivationInformation-RL-ActivationCmdFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-DelayedActivationInformation-RL-ActivationCmdFDD
                                                            CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdFDD PRESENCE
optional
         }
DelayedActivationInformation-RL-ActivationCmdFDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   delayed-activation-update
                              DelayedActivationUpdate,
                              ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
    _ _
  RADIO LINK ACTIVATION COMMAND TDD
      RadioLinkActivationCommandTDD ::= SEQUENCE {
                                                     {{RadioLinkActivationCommandTDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer
                                                    {{RadioLinkActivationCommandTDD-Extensions}}
                                                                                                                  OPTIONAL.
   . . .
}
RadioLinkActivationCommandTDD-IEs NBAP-PROTOCOL-IES ::=
          id-NodeB-CommunicationContextID
    { ID
                                                            CRITICALITY ignore TYPE
                                                                                      NodeB-CommunicationContextID
   PRESENCE
              mandatory }
         id-DelayedActivationList-RL-ActivationCmdTDD
                                                                                      DelayedActivationInformationList-RL-ActivationCmdTDD
   { ID
                                                            CRITICALITY ignore TYPE
       PRESENCE
                  mandatory },
```

```
. . .
RadioLinkActivationCommandTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
3
DelayedActivationInformationList-RL-ActivationCmdTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
     DelayedActivationInformation-RL-ActivationCmdTDD-IEs } }
DelayedActivationInformation-RL-ActivationCmdTDD-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-DelayedActivationInformation-RL-ActivationCmdTDD
                                                       CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdTDD PRESENCE
optional }
DelayedActivationInformation-RL-ActivationCmdTDD ::= SEQUENCE {
   rL-ID
                            RL-ID,
   delayed-activation-update DelayedActivationUpdate,
                            ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
  _ _
-- RADIO LINK PARAMETER UPDATE INDICATION FDD
  RadioLinkParameterUpdateIndicationFDD ::= SEQUENCE
                        ProtocolIE-Container
                                                  {{RadioLinkParameterUpdateIndicationFDD-IEs}},
   protocolIEs
                                                 {{RadioLinkParameterUpdateIndicationFDD-Extensions}}
   protocolExtensions
                        ProtocolExtensionContainer
                                                                                                         OPTIONAL,
   . . .
}
RadioLinkParameterUpdateIndicationFDD-IEs NBAP-PROTOCOL-IES ::=
     ID id-CRNC-CommunicationContextID
                                          CRITICALITY
                                                         ignore
                                                                   TYPE
                                                                          CRNC-CommunicationContextID
                                                                                                            PRESENCE mandatory } |
    ID id-HSDSCH-FDD-Update-Information
                                                                                                           PRESENCE optional },
                                          CRITICALITY
                                                        ignore
                                                                   TYPE
                                                                          HSDSCH-FDD-Update-Information
   . . .
RadioLinkParameterUpdateIndicationFDD-Extensions NBAP-PROTOCOL-EXTENSION ::=
   { ID id-E-DCH-FDD-Update-Information
                                          CRITICALITY
                                                        iqnore
                                                                   EXTENSION E-DCH-FDD-Update-Information
                                                                                                              PRESENCE optional },
   . . .
    **********
- -
-- RADIO LINK PARAMETER UPDATE INDICATION TDD
_ _
```

RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkParameterUpdateIndicationTDD-IEs}}, {{RadioLinkParameterUpdateIndicationTDD-Extensions}} protocolExtensions ProtocolExtensionContainer OPTIONAL, . . . } RadioLinkParameterUpdateIndicationTDD-IEs NBAP-PROTOCOL-IES ::= ID id-CRNC-CommunicationContextID CRITICALITY TYPE CRNC-CommunicationContextID PRESENCE mandatory } iqnore ID id-HSDSCH-TDD-Update-Information TYPE PRESENCE optional }, CRITICALITY ignore HSDSCH-TDD-Update-Information . . . } RadioLinkParameterUpdateIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . - --- MBMS NOTIFICATION UPDATE COMMAND - -MBMSNotificationUpdateCommand ::= SEOUENCE { protocolIEs ProtocolIE-Container {{ MBMSNotificationUpdateCommand-IEs}}, protocolExtensions ProtocolExtensionContainer {{ MBMSNotificationUpdateCommand-Extensions}} OPTIONAL, . . . } MBMSNotificationUpdateCommand-IEs NBAP-PROTOCOL-IES ::= { ID id-C-ID CRITICALITY ignore TYPE C-ID PRESENCE mandatory ID id-CommonPhysicalChannelID CRITICALITY ignore TYPE CommonPhysicalChannelID PRESENCE mandatory ID id-Modification-Period CRITICALITY ignore TYPE Modification-Period PRESENCE optional CRITICALITY ignore TYPE MICH-CFN ID id-MICH-CFN PRESENCE mandatory { ID id-NI-Information-NotifUpdateCmd CRITICALITY ignore TYPE NI-Information PRESENCE mandatory }. . . . } MBMSNotificationUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } END Information Elements Definitions 9.3.4 -- Information Element Definitions \*\*\*\*\*\*\*\*\*\*\* NBAP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

```
DEFINITIONS AUTOMATIC TAGS ::= BEGIN
```

#### IMPORTS

maxNrOfRLs, maxNrOfTFCs, maxNrOfErrors, maxCTFC, maxNrOfTFs, maxTTI-count. maxRateMatching, maxHS-PDSCHCodeNrComp-1, maxHS-SCCHCodeNrComp-1, maxNrOfCellSyncBursts, maxNrOfCombEDPDCH, maxNrOfEDCH-HARO-PO-OUANTSTEPs, maxNrOfEDCHHARQProcesses2msEDCH, maxNrOfBits-MACe-PDU-non-scheduled, maxNrOfEDPCCH-PO-QUANTSTEPs, maxNrOfRefETFCI-PO-QUANTSTEPs, maxNrOfRefETFCIs, maxNrOfMeasNCell, maxNrOfMeasNCell-1, maxNrOfReceptsPerSyncFrame, maxNrOfSF, maxTGPS, maxNrOfUSCHs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfDPCHs768, maxNrOfCodes, maxNrOfDSCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDCHs, maxNrOfLevels, maxNoGPSItems, maxNoSat, maxNrOfCellPortionsPerCell, maxNrOfCellPortionsPerCell-1, maxNrOfHSSCCHs, maxNrOfHSSCCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfMACdPDUIndexes, maxNrOfMACdPDUIndexes-1, maxNrOfMACdPDUSize, maxNrOfNIs, maxNrOfPriorityQueues,

maxNrOfPriorityQueues-1, maxNrOfHAROProcesses, maxNrOfSyncDLCodesLCR, maxNrOfSyncFramesLCR, maxNrOfContextsOnUeList, maxNrOfPriorityClasses, maxNrOfSatAlmanac-maxNoSat, maxNrOfE-AGCHs, maxNrOfEDCHMACdFlows, maxNrOfEDCHMACdFlows-1, maxNrOfE-RGCHs-E-HICHs, maxNrofSigSegRGHI-1, maxNoOfLogicalChannels, maxNrOfEAGCHs, maxNrOfRefBetas, maxNrOfEAGCHCodes, maxNrOfHS-DSCH-TBSs, maxNrOfHS-DSCH-TBSs-HS-SCCHless, maxNrOfEHICHCodes, maxNrOfCommonMACFlows, maxNrOfCommonMACFlows-1, maxNrOfPagingMACFlow, maxNrOfPagingMACFlow-1, maxNrOfcommonMACQueues, maxNrOfpagingMACQueues, maxNrOfHS-DSCHTBSsE-PCH, maxGANSSSat, maxNoGANSS, maxSqnType, maxHSDPAFrequency, maxHSDPAFrequency-1, maxGANSSSatAlmanac, maxGANSSClockMod, maxFrequencyinCell-1,

maxNrOfEDCHRLs,
maxMBMSServiceSelect,

id-BroadcastCommonTransportBearerIndication, id-MessageStructure, id-ReportCharacteristicsType-OnModification, id-Rx-Timing-Deviation-Value-LCR, id-SFNSFNMeasurementValueInformation, id-SFNSFNMeasurementThresholdInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TutransportLayeraddress, id-bindingID, id-Angle-Of-Arrival-Value-LCR, id-SyncDLCodeIdThreInfoLCR, id-neighbouringTDDCellMeasurementInformationLCR, id-HS-SICH-Reception-Quality,

id-HS-SICH-Reception-Quality-Measurement-Value, id-Initial-DL-Power-TimeslotLCR-InformationItem. id-Maximum-DL-Power-TimeslotLCR-InformationItem. id-Minimum-DL-Power-TimeslotLCR-InformationItem. id-Received-total-wide-band-power-For-CellPortion, id-Received-total-wide-band-power-For-CellPortion-Value, id-Transmitted-Carrier-Power-For-CellPortion, id-Transmitted-Carrier-Power-For-CellPortion-Value, id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission, id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion, id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue, id-HS-DSCHRequiredPowerValueInformation, id-HS-DSCHProvidedBitRateValueInformation, id-HS-DSCHRequiredPowerValue, id-HS-DSCHRequiredPowerValue-For-Cell-Portion, id-HS-DSCHRequiredPowerValueInformation-For-CellPortion, id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion, id-HSDSCH-MACdPDUSizeFormat, id-HS-PDSCH-Code-Change-Grant, id-HS-PDSCH-Code-Change-Indicator, id-Best-Cell-Portions-Value, id-Unidirectional-DCH-Indicator, id-SAT-Info-Almanac-ExtItem, id-TnlOos. id-UpPTSInterferenceValue, id-HARQ-Preamble-Mode, id-HARO-Preamble-Mode-Activation-Indicator, id-DLTransmissionBranchLoadValue. id-E-DCHProvidedBitRateValueInformation. id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue, id-HSSICH-SIRTarget, id-PLCCH-Information-UL-TimeslotLCR-Info, id-neighbouringTDDCellMeasurementInformation768. id-Rx-Timing-Deviation-Value-768, id-hsSCCH-Specific-Information-ResponseTDD768, id-Rx-Timing-Deviation-Value-384-ext, id-E-DCH-PowerOffset-for-SchedulingInfo, id-Extended-Round-Trip-Time-Value, id-ExtendedPropagationDelay, id-HSSICH-TPC-StepSize, id-RTWP-CellPortion-ReportingIndicator, id-Received-Scheduled-EDCH-Power-Share-Value, id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value, id-Received-Scheduled-EDCH-Power-Share, id-Received-Scheduled-EDCH-Power-Share-For-CellPortion, id-ueCapability-Info, id-ContinuousPacketConnectivityHS-SCCH-less-Information, id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response, id-MIMO-ActivationIndicator, id-MIMO-Mode-Indicator. id-MIMO-N-M-Ratio, id-Additional-failed-HS-SICH. id-Additional-missed-HS-SICH, id-Additional-total-HS-SICH, id-Additional-HS-SICH-Reception-Ouality-Measurement-Value,

id-LCRTDD-uplink-Physical-Channel-Capability, id-SixteenOAM-UL-Operation-Indicator, id-E-AGCH-Table-Choice. id-E-TFCI-Boost-Information. id-E-DPDCH-PowerInterpolation, id-MaximumMACdPDU-SizeExtended, id-GANSS-Common-Data, id-GANSS-Information, id-GANSS-Generic-Data, id-TUTRANGANSSMeasurementThresholdInformation, id-TUTRANGANSSMeasurementValueInformation, id-Extended-RNC-ID, id-HARO-MemoryPartitioningInfoExtForMIMO, id-Ext-Reference-E-TFCI-PO, id-Ext-Max-Bits-MACe-PDU-non-scheduled, id-TransportBearerNotSetupIndicator, id-TransportBearerNotRequestedIndicator, id-UARFCNforNt, id-number-Of-Supported-Carriers, id-multipleFreg-HSPDSCH-InformationList-ResponseTDDLCR, id-tSN-Length, id-multicarrier-number, id-Extended-HS-SICH-ID, id-Default-Serving-Grant-in-DTX-Cvcle2, id-SixtyfourQAM-UsageAllowedIndicator, id-SixtyfourOAM-DL-UsageIndicator, id-IPMulticastDataBearerIndication, id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory, id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator, id-Extended-E-HICH-ID-TDD, id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD, id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD, id-E-PUCH-PowerControlGAP, id-HSDSCH-TBSizeTableIndicator, id-E-DCH-DL-Control-Channel-Change-Information, id-E-DCH-DL-Control-Channel-Grant-Information, id-DGANSS-Corrections-Reg, id-TransportBearerRequestIndicator, id-MACes-Maximum-Bitrate-LCR, id-MultiCarrier-HSDSCH-Physical-Layer-Category

FROM NBAP-Constants

Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM NBAP-CommonDataTypes

> NBAP-PROTOCOL-IES, ProtocolExtensionContainer{}, ProtocolIE-Single-Container{},

```
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
-- A
AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in [22].
AdditionalMeasurementValueList::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF AdditionalMeasurementValue
AdditionalMeasurementValue ::= SEQUENCE {
    UARFCN
                                          UARFCN,
    timeSlotMeasurementValueListLCR
                                         TimeSlotMeasurementValueListLCR,
                                          ProtocolExtensionContainer { {AdditionalMeasurementValueList-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
AdditionalMeasurementValueList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
AdditionalTimeSlotListLCR::= SEQUENCE (SIZE (0..maxFrequencyinCell-1)) OF AdditionalTimeSlotLCR
AdditionalTimeSlotLCR ::= SEQUENCE {
    UARFCN
                                      UARFCN,
    timeslot-InitiatedListLCR
                                             TimeSlot-InitiatedListLCR
                                                                         OPTIONAL,
                                             ProtocolExtensionContainer { {AdditionalTimeSlotLCR-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
AdditionalTimeSlotLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete
}
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
                                                         CFN,
    transmission-Gap-Pattern-Sequence-Status
                                             Transmission-Gap-Pattern-Sequence-Status-List OPTIONAL,
```

```
ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGPRC
                        TGPRC,
        t.GCFN
                        CFN.
        iE-Extensions
                             ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        . . .
J
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.
AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                 PriorityLevel,
    pre-emptionCapability
                                 Pre-emptionCapability,
    pre-emptionVulnerability
                                 Pre-emptionVulnerability,
                                 ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
J
AlternativeFormatReportingIndicator ::= ENUMERATED
   alternativeFormatAllowed,...
}
Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
    aOA-LCR
                                AOA-LCR,
    aOA-LCR-Accuracy-Class
                                 AOA-LCR-Accuracy-Class,
    iE-Extensions
                                 ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
```

```
. . .
}
Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD
AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,q,h,...}
AvailabilityStatus ::= ENUMERATED {
    empty,
   in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
   log-full,
    . . .
_ _
  _____
- -
BCCH-Specific-HSDSCH-RNTI-Information::= SEQUENCE {
   bCCH-Specific-HSDSCH-RNTI
                                                  HSDSCH-RNTI,
   hSSCCH-Power
                                                  DL-Power,
   hSPDSCH-Power
                                                  DL-Power,
                                                  ProtocolExtensionContainer { { BCCH-Specific-HSDSCH-RNTI-Information-Extles } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
}
BCCH-Specific-HSDSCH-RNTI-Information-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed
Best-Cell-Portions-Value::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Best-Cell-Portions-Item
Best-Cell-Portions-Item ::= SEQUENCE {
                              CellPortionID,
   cellPortionID
    sIRValue
                              SIR-Value,
   iE-Extensions
                              ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs } }
                                                                                                               OPTIONAL,
```

. . .

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```
}
Best-Cell-Portions-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BindingID ::= OCTET STRING (SIZE (1..4, ...))
-- If the Binding ID includes a UDP port, the UDP port is included in octet 1 and 2. The first octet of
-- the UDP port field is included in the first octet of the Binding ID.
BetaCD ::= INTEGER (0..15)
BlockingPriorityIndicator ::= ENUMERATED {
   high,
   normal,
   low,
    . . .
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.
SCTD-Indicator ::= ENUMERATED {
   active,
   inactive
}
BundlingModeIndicator ::= ENUMERATED {
   bundling,
   no-bundling
}
BroadcastCommonTransportBearerIndication ::= SEQUENCE {
   commonTransportChannelID
                                     CommonTransportChannelID,
   cid
                                     C-ID,
   iE-Extensions
                                      ProtocolExtensionContainer { { BroadcastCommonTransportBearerIndication-ExtIEs } }
                                                                                                                        OPTIONAL,
}
BroadcastCommonTransportBearerIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
BroadcastReference ::= BIT STRING (SIZE (24))
-- C
Cause ::= CHOICE {
   radioNetwork
                          CauseRadioNetwork,
   transport
                      CauseTransport,
                          CauseProtocol,
   protocol
```

```
CauseMisc,
    misc
    . . .
CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
CauseProtocol ::= ENUMERATED {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
    . . .
}
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID.
    cell-not-available,
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cpich-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
    dedicated-transport-channel-type-not-supported,
    downlink-shared-channel-type-not-supported,
    uplink-shared-channel-type-not-supported,
    cm-not-supported,
```

```
tx-diversity-no-longer-supported,
    unknown-Local-Cell-ID.
    . . . ,
    number-of-UL-codes-not-supported,
    information-temporarily-not-available,
    information-provision-not-supported-for-the-object,
    cell-synchronisation-not-supported,
    cell-synchronisation-adjustment-not-supported,
    dpc-mode-change-not-supported,
    iPDL-already-activated,
    iPDL-not-supported,
    iPDL-parameters-not-available,
    frequency-acquisition-not-supported,
    power-balancing-status-not-compatible,
    requested-typeofbearer-re-arrangement-not-supported,
    signalling-Bearer-Re-arrangement-not-supported,
    bearer-Re-arrangement-needed,
    delayed-activation-not-supported,
    rl-timing-adjustment-not-supported,
    mich-not-supported,
    f-DPCH-not-supported,
    modification-period-not-available,
    pLCCH-not-supported,
    continuous-packet-connectivity-DTX-DRX-operation-not-available,
    continuous-packet-connectivity-UE-DTX-Cycle-not-available,
    mIMO-not-available,
    dummy-e-DCH-MACdPDU-SizeFormat-not-available,
    dummy-multi-Cell-operation-not-available,
    dummy-semi-Persistent-scheduling-not-supported,
    dummy-continuous-Packet-Connectivity-DRX-not-supported,
    dummy-continuous-Packet-Connectivity-DRX-not-available,
    dummy-sixtyfourQAM-DL-and-MIMO-Combined-not-available,
    s-cpich-power-offset-not-available,
    tx-diversity-for-mimo-on-DL-control-channels-not-available
}
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
    . . .
}
CCTrCH-ID ::= INTEGER (0..15)
CellParameterID ::= INTEGER (0..127,...)
CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)
CellSyncBurstCode ::= INTEGER(0...7, ...)
CellSyncBurstCodeShift ::= INTEGER(0..7)
CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)
```

```
CellSyncBurstSIR ::= INTEGER (0..31)
CellSyncBurstTiming ::= CHOICE {
    initialPhase
                            INTEGER (0..1048575,...),
    steadyStatePhase
                            INTEGER (0..255,...)
}
CellSyncBurstTimingLCR ::= CHOICE {
    initialPhase
                            INTEGER (0..524287,...),
    steadyStatePhase
                            INTEGER (0..127,...)
}
CellSyncBurstTimingThreshold ::= INTEGER(0..254)
CFN ::= INTEGER (0..255)
ChipOffset ::= INTEGER (0..38399)
-- Unit Chip
C-ID ::= INTEGER (0..65535)
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adi-1-slot,
    adj-2-slot,
    . . .
3
CodeRate ::= INTEGER (0..63)
CodeRate-short ::= INTEGER (0..10)
CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
   SEOUENCE {
       dl-Cost
                    INTEGER (0..65535),
       ul-Cost
                   INTEGER (0..65535),
       iE-Extensions
                            ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } }
                                                                                                                        OPTIONAL,
        . . .
}
CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Common-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlows)) OF Common-MACFlows-to-DeleteFDD-Item
Common-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
    common-MACFlow-ID
                                                     Common-MACFlow-ID,
    iE-Extensions
                                                     ProtocolExtensionContainer { { Common-MACFlows-to-DeleteFDD-Item-ExtIEs } }
    OPTIONAL,
    . . .
```

```
Common-MACFlows-to-DeleteFDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Common-MACFlow-ID ::= INTEGER (0., maxNrOfCommonMACFlows-1)
CommonMACFlow-Specific-InfoList ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem
CommonMACFlow-Specific-InfoItem ::= SEQUENCE {
    common-MACFlow-Id
                                                     Common-MACFlow-ID,
   bindingID
                                                                                                  OPTIONAL,
                                                     BindingID
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                                  OPTIONAL,
    tnl-gos
                                                     TnlOos
                                                                                                  OPTIONAL,
    common-MACFlow-PriorityOueue-Information
                                                     Common-MACFlow-PriorityOueue-Information
                                                                                                 OPTIONAL,
                                                     ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
CommonMACFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerRequestIndicator
                                                CRITICALITY ignore EXTENSION TransportBearerRequestIndicator PRESENCE optional},
    -- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
    . . .
CommonMACFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem-Response
CommonMACFlow-Specific-InfoItem-Response ::= SEQUENCE {
                                                     Common-MACFlow-ID,
    commonMACFlow-ID
    bindingID
                                                     BindingID
                                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                                  OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                     HSDSCH-Initial-Capacity-Allocation
                                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-Response-ExtIEs} }
    OPTIONAL,
    . . .
CommonMACFlow-Specific-InfoItem-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Common-MACFlow-PriorityQueue-Information ::= SEQUENCE (SIZE (1..maxNrOfcommonMACQueues)) OF Common-MACFlow-PriorityQueue-Item
Common-MACFlow-PriorityQueue-Item ::= SEQUENCE {
    priority-Oueue-Information-for-Enhanced-FACH
                                                         Priority-Oueue-Information-for-Enhanced-FACH-PCH.
                                                         ProtocolExtensionContainer { { Common-MACFlow-PriorityQueue-Item-ExtIEs } }
       iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
}
Common-MACFlow-PriorityOueue-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

CommonMeasurementAccuracy ::= CHOICE { tUTRANGPSMeasurementAccuracyClass TUTRANGPSAccuracyClass, . . . , tUTRANGANSSMeasurementAccuracyClass TUTRANGANSSAccuracyClass CommonMeasurementType ::= ENUMERATED received-total-wide-band-power, transmitted-carrier-power, acknowledged-prach-preambles, ul-timeslot-iscp, notUsed-1-acknowledged-PCPCH-access-preambles, notUsed-2-detected-PCPCH-access-preambles, . . . , uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning, sFN-SFN-Observed-Time-Difference, transmittedCarrierPowerOfAllCodesNotUsedForHSTransmission, hS-DSCH-Required-Power, hS-DSCH-Provided-Bit-Rate, received-total-wide-band-power-for-cellPortion, transmitted-carrier-power-for-cellPortion, transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmission-for-cellPortion. upPTS-Interference, dLTransmissionBranchLoad, hS-DSCH-Required-Power-for-cell-portion, hS-DSCH-Provided-Bit-Rate-for-cell-portion, e-DCH-Provided-Bit-Rate, e-DCH-Non-serving-Relative-Grant-Down-Commands, received-Scheduled-EDCH-Power-Share, received-Scheduled-EDCH-Power-Share-for-cellPortion, uTRAN-GANSS-timing-of-cell-frames-for-UE-Positioning CommonMeasurementValue ::= CHOICE { transmitted-carrier-power Transmitted-Carrier-Power-Value, received-total-wide-band-power Received-total-wide-band-power-Value, acknowledged-prach-preambles Acknowledged-PRACH-preambles-Value, uL-TimeslotISCP UL-TimeslotISCP-Value, notUsed-1-acknowledged-PCPCH-access-preambles NULL, notUsed-2-detected-PCPCH-access-preambles NULL. extension-CommonMeasurementValue Extension-CommonMeasurementValue Extension-CommonMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }} Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= { ID id-TUTRANGPSMeasurementValueInformation CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation PRESENCE mandatory } ID id-SFNSFNMeasurementValueInformation CRITICALITY ignore TYPE SFNSFNMeasurementValueInformation PRESENCE mandatory } ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission CRITICALITY ignore TYPE TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory } | CRITICALITY ignore TYPE HS-DSCHRequiredPower PRESENCE mandatory } | { ID id-HS-DSCHRequiredPowerValueInformation

```
ID id-HS-DSCHProvidedBitRateValueInformation
                                                            CRITICALITY ignore TYPE HS-DSCHProvidedBitRate
                                                                                                                             PRESENCE mandatory } |
     ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value PRESENCE
mandatory }
    { ID id-Received-total-wide-band-power-For-CellPortion-Value
                                                                    CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion-Value
    PRESENCE mandatory }
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHORE-HICHTransmissionCellPortionValueCRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue
                                                                                                                PRESENCE mandatory }|
    { ID id-UpPTSInterferenceValue
                                                                    CRITICALITY ignore TYPE UpPTSInterferenceValue
                                                                                                                                           PRESENCE
mandatory }|
    { ID id-DLTransmissionBranchLoadValue
                                                                    CRITICALITY ignore TYPE DLTransmissionBranchLoadValue
    PRESENCE mandatory }|
    { ID id-HS-DSCHRequiredPowerValueInformation-For-CellPortion
                                                                    CRITICALITY ignore TYPE HS-DSCHRequiredPowerValueInformation-For-CellPortion
    PRESENCE mandatory } |
    { ID id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion CRITICALITY ignore TYPE HS-DSCHProvidedBitRateValueInformation-For-CellPortion
    PRESENCE mandatory } |
    { ID id-E-DCHProvidedBitRateValueInformation
                                                                    CRITICALITY ignore TYPE E-DCHProvidedBitRate
    PRESENCE mandatory } |
    { ID id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue
                                                                    CRITICALITY ignore TYPE E-DCH-Non-serving-Relative-Grant-Down-Commands
    PRESENCE mandatory }
     ID id-Received-Scheduled-EDCH-Power-Share-Value CRITICALITY ignore TYPE Received-Scheduled-EDCH-Power-Share-Value PRESENCE mandatory }
     ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value CRITICALITY ignore TYPE Received-Scheduled-EDCH-Power-Share-For-
CellPortion-Value PRESENCE mandatory }|
    { ID id-TUTRANGANSSMeasurementValueInformation
                                                        CRITICALITY ignore TYPE TUTRANGANSSMeasurementValueInformation PRESENCE mandatory }
CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                CommonMeasurementAvailable,
    measurementnotAvailable
                                CommonMeasurementnotAvailable
CommonMeasurementAvailable::= SEQUENCE {
    commonmeasurementValue
                                CommonMeasurementValue,
                                    ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommonMeasurementnotAvailable ::= NULL
CommonPhysicalChannelID ::= INTEGER (0..255)
CommonPhysicalChannelID768 ::= INTEGER (0..511)
Common-PhysicalChannel-Status-Information ::= SEQUENCE {
    commonPhysicalChannelID
                                        CommonPhysicalChannelID,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs } }
                                                                                                                               OPTIONAL,
```

```
. . .
}
Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
Common-PhysicalChannel-Status-Information768 ::= SEQUENCE {
    commonPhysicalChannelID768
                                        CommonPhysicalChannelID768,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                        AvailabilityStatus,
                                        ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information768-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
Common-PhysicalChannel-Status-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommonTransportChannelID ::= INTEGER (0..255)
CommonTransportChannel-InformationResponse ::= SEQUENCE {
                                        CommonTransportChannelID,
    commonTransportChannelID
    bindingID
                                        BindingID
                                                                 OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress OPTIONAL,
                                        ProtocolExtensionContainer { { CommonTransportChannel-InformationResponse-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-BroadcastCommonTransportBearerIndication CRITICALITY ignore EXTENSION BroadcastCommonTransportBearerIndication
     ID
                                                                                                                                  PRESENCE optional
}|
           id-IPMulticastDataBearerIndication
     ID
                                                        CRITICALITY ignore EXTENSION IPMulticastDataBearerIndication
                                                                                                                                  PRESENCE
optional },
    . . .
Common-TransportChannel-Status-Information ::= SEQUENCE
    commonTransportChannelID
                                        CommonTransportChannelID,
                                        ResourceOperationalState,
    resourceOperationalState
    availabilityStatus
                                        AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CommunicationControlPortID ::= INTEGER (0..65535)
Compressed-Mode-Deactivation-Flag::= ENUMERATED {
    deactivate,
```

```
maintain-Active
}
ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"
ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB
ContinuousPacketConnectivityDTX-DRX-Capability ::= ENUMERATED {
    continuous-Packet-Connectivity-DTX-DRX-capable,
    continuous-Packet-Connectivity-DTX-DRX-non-capable
}
ContinuousPacketConnectivityDTX-DRX-Information ::= SEQUENCE {
    uE-DTX-DRX-Offset
                                                UE-DTX-DRX-Offset,
    enabling-Delay
                                                 Enabling-Delay,
    dTX-Information
                                                DTX-Information,
    dRX-Information
                                                DRX-Information
                                                                                     OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { ContinuousPacketConnectivityDTX-DRX-Information-ExtIEs } }
    OPTIONAL,
    . . .
ContinuousPacketConnectivityDTX-DRX-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
ContinuousPacketConnectivityDTX-DRX-Information-to-Modify ::= SEQUENCE {
    uE-DTX-DRX-Offset
                                                UE-DTX-DRX-Offset
                                                                                         OPTIONAL,
    enabling-Delay
                                                 Enabling-Delay
                                                                                         OPTIONAL,
    dTX-Information-to-Modify
                                                DTX-Information-to-Modify
                                                                                         OPTIONAL,
                                                DRX-Information-to-Modify
    dRX-Information-to-Modify
                                                                                         OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { ContinuousPacketConnectivityDTX-DRX-Information-to-Modify-ExtIEs } }
           OPTIONAL,
    . . .
ContinuousPacketConnectivityDTX-DRX-Information-to-Modify-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ContinuousPacketConnectivityHS-SCCH-less-Capability ::= ENUMERATED {
    continuous-Packet-Connectivity-HS-SCCH-less-capable,
    continuous-Packet-Connectivity-HS-SCCH-less-capable-non-capable
}
```

ContinuousPacketConnectivityHS-SCCH-less-Information ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCH-TBSs-HS-SCCHless)) OF ContinuousPacketConnectivityHS-SCCH-less-InformationItem

```
ContinuousPacketConnectivityHS-SCCH-less-InformationItem ::= SEQUENCE {
    transport-Block-Size-Index
                                            Transport-Block-Size-Index,
    hSPDSCH-Second-Code-Support
                                            HSPDSCH-Second-Code-Support.
   iE-Extensions
                                            ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs } }
    OPTIONAL,
    . . .
ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ContinuousPacketConnectivityHS-SCCH-less-Information-Response ::= SEQUENCE {
    hSPDSCH-First-Code-Index
                                            HSPDSCH-First-Code-Index,
    hSPDSCH-Second-Code-Index
                                            HSPDSCH-Second-Code-Index
                                                                                     OPTIONAL,
                                            ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs } }
    iE-Extensions
           OPTIONAL,
    . . .
3
ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ControlGAP ::= INTEGER (1..255)
CPC-Information ::= SEQUENCE
    continuousPacketConnectivityDTX-DRX-Information
                                                                     ContinuousPacketConnectivityDTX-DRX-Information
                                                                                                                                    OPTIONAL,
    continuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                                     ContinuousPacketConnectivityDTX-DRX-Information-to-Modify
                                                                                                                                    OPTIONAL,
    continuousPacketConnectivityHS-SCCH-less-Information
                                                                     ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                                                                                    OPTIONAL,
                                ProtocolExtensionContainer { { CPC-Information-ExtIEs } }
                                                                                                                                    OPTIONAL,
    iE-Extensions
    . . .
CPC-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator CRITICALITY reject EXTENSION ContinuousPacketConnectivityHS-SCCH-
less-Deactivate-Indicator PRESENCE optional },
    . . .
}
ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator ::= NULL
CQI-DTX-Timer ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
    -- Unit subframe
CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,..., v16, v32, v64}
COI-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
CQI-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1
```

```
CriticalityDiagnostics ::= SEQUENCE {
   procedureID
                              ProcedureID
                                                    OPTIONAL.
   triggeringMessage
                              TriggeringMessage
                                                        OPTIONAL,
   procedureCriticality
                              Criticality
                                                     OPTIONAL.
   transactionID
                              TransactionID
                                                        OPTIONAL,
   iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,
                              ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
   iE-Extensions
                                                                                                             OPTIONAL,
   . . .
CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
3
CriticalityDiagnostics-IE-List := SEQUENCE (SIZE (1..maxNrOfErrors)) OF
   SEQUENCE {
       iECriticality
                          Criticality,
                          ProtocolIE-ID,
       iE-ID
       repetitionNumber
                          RepetitionNumber0
                                                 OPTIONAL,
       iE-Extensions
                          ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
                                                                                                                OPTIONAL,
       . . .
CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
       ID id-MessageStructure
                                 CRITICALITY ignore
                                                         EXTENSION MessageStructure
                                                                                       PRESENCE optional
       ID id-TypeOfError
                                 CRITICALITY ignore
                                                        EXTENSION TypeOfError
                                                                                       PRESENCE mandatory
   . . .
}
CRNC-CommunicationContextID ::= INTEGER (0..1048575)
CSBMeasurementID ::= INTEGER (0..65535)
CSBTransmissionID ::= INTEGER (0..65535)
- -
  D
DATA-ID ::= INTEGER (0..3)
DCH-ID ::= INTEGER (0..255)
DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEQUENCE {
                                     PayloadCRC-PresenceIndicator,
   payloadCRC-PresenceIndicator
   ul-FP-Mode
                                     UL-FP-Mode,
   toAWS
                                     TOAWS,
   toAWE
                                     TOAWE,
   dCH-SpecificInformationList
                                     DCH-Specific-FDD-InformationList,
```

```
ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                        CRITICALITY ignore
                                                                                          PRESENCE optional
                                                                                                                      },
    { ID id-TnlOos
                                                                 EXTENSION TnlOos
    . . .
}
DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::=
                           SEQUENCE {
    dCH-ID
                                        DCH-ID,
    ul-TransportFormatSet
                                        TransportFormatSet,
    dl-TransportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        OE-Selector,
    iE-Extensions
                                        ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
DCH-Specific-FDD-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Unidirectional-DCH-Indicator CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                                      PRESENCE optional },
    . . .
}
DCH-Indicator-For-E-DCH-HSDPA-Operation ::= ENUMERATED {
    dch-not-present
}
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
                                                     DCH-ID,
    dCH-ID
    bindingID
                                                     BindingID
                                                                             OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress OPTIONAL,
                                                     ProtocolExtensionContainer { { DCH-InformationResponseItem-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                         PRESENCE optional }, -- FDD
only
    . . .
DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        TOAWS,
                                        TOAWE,
    toAWE
```

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dCH-SpecificInformationList DCH-Specific-TDD-InformationList, iE-Extensions ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs } } OPTIONAL, . . . DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-TnlOos CRITICALITY ignore EXTENSION Thloos PRESENCE optional }, . . . } DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item DCH-Specific-TDD-Item ::= SEQUENCE { dCH-ID DCH-ID, ul-CCTrCH-ID CCTrCH-ID, dl-CCTrCH-ID CCTrCH-ID, ul-TransportFormatSet TransportFormatSet, dl-TransportFormatSet TransportFormatSet, allocationRetentionPriority AllocationRetentionPriority, frameHandlingPriority FrameHandlingPriority, qE-Selector OE-Selector OPTIONAL. -- This IE shall be present if DCH is part of set of Coordinated DCHs ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs} } iE-Extensions OPTIONAL, . . . DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Unidirectional-DCH-Indicator CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator PRESENCE optional }, . . . } FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem FDD-DCHs-to-ModifyItem := SEQUENCE { ul-FP-Mode UL-FP-Mode OPTIONAL, toAWS TOAWS OPTIONAL, toAWE TOAWE OPTIONAL, TransportBearerRequestIndicator, transportBearerRequestIndicator dCH-SpecificInformationList DCH-ModifySpecificInformation-FDD, iE-Extensions ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-ExtIEs } } OPTIONAL, . . . FDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-TnlOos CRITICALITY ignore PRESENCE optional }, EXTENSION Thloos . . . } DCH-ModifySpecificInformation-FDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD DCH-ModifySpecificItem-FDD::= SEOUENCE { dCH-ID DCH-ID, ul-TransportFormatSet TransportFormatSet OPTIONAL, dl-TransportFormatSet TransportFormatSet OPTIONAL,

```
allocationRetentionPriority
                                                     AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                  OPTIONAL.
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-ModifySpecificItem-FDD-ExtIEs } }
                                                                                                                                OPTIONAL.
    . . .
DCH-ModifySpecificItem-FDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-Unidirectional-DCH-Indicator
                                                         CRITICALITY reject
                                                                                  EXTENSION Unidirectional-DCH-Indicator
                                                                                                                             PRESENCE optional },
    . . .
}
TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD
DCH-ModifyItem-TDD ::= SEQUENCE {
    ul-FP-Mode
                                         UL-FP-Mode
                                                          OPTIONAL,
    toAWS
                                         ToAWS
                                                          OPTIONAL,
    toAWE
                                         TOAWE
                                                         OPTIONAL,
    transportBearerRequestIndicator
                                         TransportBearerRequestIndicator,
    dCH-SpecificInformationList
                                         DCH-ModifySpecificInformation-TDD,
    iE-Extensions
                                         ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
TDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                                         CRITICALITY ignore
                                                                                           PRESENCE optional },
                                                                  EXTENSION TnlOos
    . . .
}
DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD
DCH-ModifySpecificItem-TDD ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID,
    ul-CCTrCH-ID
                                                     CCTrCH-ID
                                                                                  OPTIONAL,
    dl-CCTrCH-ID
                                                     CCTrCH-ID
                                                                                  OPTIONAL,
    ul-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    dl-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    allocationRetentionPriority
                                                     AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-ModifySpecificItem-TDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
DCH-ModifySpecificItem-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
    SEOUENCE {
        dl-Cost-1
                        INTEGER (0..65535),
        dl-Cost-2
                        INTEGER (0..65535),
        ul-Cost-1
                        INTEGER (0..65535),
        ul-Cost-2
                        INTEGER (0..65535),
                             ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs } }
        iE-Extensions
                                                                                                                          OPTIONAL,
```

. . .

}

```
DedicatedChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DedicatedMeasurementType ::= ENUMERATED {
    sir.
    sir-error,
    transmitted-code-power,
    rscp,
    rx-timing-deviation,
    round-trip-time,
    ...,
    rx-timing-deviation-LCR,
    angle-Of-Arrival-LCR,
    hs-sich-quality,
    best-Cell-Portions,
    rx-timing-deviation-768,
    rx-timing-deviation-384-extended
}
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value
                                    SIR-Value,
    sIR-ErrorValue
                                    SIR-Error-Value,
    transmittedCodePowerValue
                                        Transmitted-Code-Power-Value,
    rSCP
                                        RSCP-Value,
    rxTimingDeviationValue
                                        Rx-Timing-Deviation-Value,
    roundTripTime
                                        Round-Trip-Time-Value,
    . . . .
    extension-DedicatedMeasurementValue
                                            Extension-DedicatedMeasurementValue
Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}
Extension-DedicatedMeasurementValueIE NBAP-PROTOCOL-IES ::= {
                                                                                                               PRESENCE mandatory }
    { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
      ID id-Angle-Of-Arrival-Value-LCR
                                                                                                               PRESENCE mandatory }
                                                CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR
      ID id-HS-SICH-Reception-Quality
                                                CRITICALITY reject TYPE HS-SICH-Reception-Quality-Value
                                                                                                               PRESENCE mandatory }
      ID id-Best-Cell-Portions-Value
                                                CRITICALITY reject TYPE Best-Cell-Portions-Value
                                                                                                               PRESENCE mandatory
      ID id-Rx-Timing-Deviation-Value-768
                                                CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
                                                                                                               PRESENCE mandatory
      ID id-Rx-Timing-Deviation-Value-384-ext
                                                CRITICALITY reject TYPE Rx-Timing-Deviation-Value-384-ext
                                                                                                               PRESENCE mandatory }
     ID id-Extended-Round-Trip-Time-Value
                                                CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
                                                                                                               PRESENCE mandatory },
    . . .
}
```

DedicatedMeasurementValueInformation ::= CHOICE {

measurementAvailable	DedicatedMeasurementAvailable,
measurementnotAvailable	DedicatedMeasurementnotAvailable

```
}
DedicatedMeasurementAvailable::= SEQUENCE {
    dedicatedmeasurementValue
                                     DedicatedMeasurementValue,
    cFN
                                     CFN
                                                                 OPTIONAL,
    ie-Extensions
                                     ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
    cfn
                            CFN,
    separate-indication
                            NULL
}
DelayedActivationUpdate ::= CHOICE {
                    Activate-Info,
    activate
    deactivate
                    Deactivate-Info
}
Activate-Info ::= SEQUENCE {
    activation-type
                            Execution-Type,
    initial-dl-tx-power
                            DL-Power,
                            FirstRLS-Indicator
    firstRLS-Indicator
                                                                                          OPTIONAL, --FDD Only
    propagation-delay
                            PropagationDelay
                                                                                          OPTIONAL, --FDD Only
                            ProtocolExtensionContainer { { Activate-Info-ExtIEs} }
    iE-Extensions
                                                                                          OPTIONAL,
    . . .
Activate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ExtendedPropagationDelay CRITICALITY reject EXTENSION ExtendedPropagationDelay PRESENCE mandatory }, --FDD Only
    . . .
}
Deactivate-Info ::= SEQUENCE {
    deactivation-type
                            Execution-Type,
    iE-Extensions
                            ProtocolExtensionContainer { { Deactivate-Info-ExtIEs } }
                                                                                              OPTIONAL,
    . . .
}
Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
Execution-Type ::= CHOICE {
    synchronised CFN,
    unsynchronised NULL
}
DeltaSIR
                      ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
DGANSSCorrections ::= SEQUENCE {
    dGANSS-ReferenceTime
                                        INTEGER(0..119),
    dGANSS-Information
                                        DGANSS-Information,
                                        ProtocolExtensionContainer { { DGANSSCorrections-ExtIEs } }
   ie-Extensions
                                                                                                                      OPTIONAL,
    . . .
DGANSSCorrections-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-Corrections-Reg ::= SEQUENCE {
    dGANSS-Signal-ID
                                        BIT STRING (SIZE (8)),
   ie-Extensions
                                        ProtocolExtensionContainer { { DGANSS-Corrections-Req-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
}
DGANSS-Corrections-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-Information ::= SEQUENCE (SIZE (1..maxSgnType)) OF DGANSS-InformationItem
DGANSS-InformationItem ::= SEQUENCE {
                                        GANSS-Signal-ID
   qANSS-SignalId
                                                                                                                      OPTIONAL.
    qANSS-StatusHealth
                                        GANSS-StatusHealth,
-- The following IE shall be present if the Status Health IE value is not equal to 'no data' or 'invalid data'
    dGANSS-SignalInformation
                                        DGANSS-SignalInformation
                                                                                                                      OPTIONAL,
                                        ProtocolExtensionContainer { { DGANSS-InformationItem-ExtIEs } }
    ie-Extensions
                                                                                                                      OPTIONAL,
    . . .
DGANSS-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-SignalInformation ::= SEQUENCE (SIZE (1...maxGANSSSat)) OF DGANSS-SignalInformationItem
```

```
DGANSS-SignalInformationItem ::= SEQUENCE {
    satId
                                          INTEGER(0..63),
    qANSS-iod
                                         BIT STRING (SIZE (10)),
    udre
                                         UDRE,
    ganss-prc
                                         INTEGER(-2047..2047),
    ganss-rrc
                                         INTEGER(-127..127),
                                         ProtocolExtensionContainer { { DGANSS-SignalInformationItem-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
DGANSS-SignalInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSSThreshold ::= SEQUENCE {
    pRCDeviation
                                         PRCDeviation,
    ie-Extensions
                                         ProtocolExtensionContainer { { DGANSSThreshold-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
l
DGANSSThreshold-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSCorrections ::= SEQUENCE {
   gpstow
                          GPSTOW,
   status-health
                          GPS-Status-Health,
   satelliteinfo
                          SAT-Info-DGPSCorrections,
                          ProtocolExtensionContainer { { DGPSCorrections-ExtIEs } }
   ie-Extensions
                                                                                            OPTIONAL,
   . . .
}
DGPSCorrections-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSThresholds ::= SEQUENCE {
   prcdeviation
                         PRCDeviation,
                         ProtocolExtensionContainer { { DGPSThresholds-ExtIEs } }
   ie-Extensions
                                                                                        OPTIONAL,
   . . .
}
DGPSThresholds-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

DiscardTimer ::= ENUMERATED

```
\{v20, v40, v60, v80, v100, v120, v140, v160, v180, v200, v250, v300, v400, v500, v750, v1000, v1250, v1500, v1750, v2000, v2500, v3000, v3500, v4000, v4500, v5000, v7500, v1000, v1250, v1000, v100
  . . .
}
DiversityControlField ::= ENUMERATED
          may,
          must,
          must-not,
           . . .
DiversityMode ::= ENUMERATED {
          none,
          sTTD,
          closed-loop-model,
          not-used-closed-loop-mode2,
           . . .
DL-DPCH-SlotFormat ::= INTEGER (0..16,...)
DL-DPCH-TimingAdjustment ::= ENUMERATED {
          timing-advance,
          timing-delay
}
DL-Timeslot-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationItem
DL-Timeslot-InformationItem ::= SEQUENCE {
                                                                                                               TimeSlot,
          timeSlot
          midambleShiftAndBurstType
                                                                                                               MidambleShiftAndBurstType,
          tFCI-Presence
                                                                                                               TFCI-Presence,
          dL-Code-Information
                                                                                                               TDD-DL-Code-Information,
                                                                                                               ProtocolExtensionContainer { { DL-Timeslot-InformationItem-ExtIEs } }
          iE-Extensions
                                                                                                                                                                                                                                                                                                              OPTIONAL,
          . . .
}
DL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           . . .
}
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-InformationItem
DL-TimeslotLCR-InformationItem := SEOUENCE {
                                                                                                               TimeSlotLCR,
          timeSlotLCR
          midambleShiftLCR
                                                                                                               MidambleShiftLCR,
          tFCI-Presence
                                                                                                               TFCI-Presence,
          dL-Code-LCR-Information
                                                                                                               TDD-DL-Code-LCR-Information,
                                                                                                               ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs } }
          iE-Extensions
                                                                                                                                                                                                                                                                                                             OPTIONAL,
           . . .
}
```

```
DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
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                                                                                                                        ETSI TS 125 433 V7.16.0 (2010-05)
    { ID id-Initial-DL-Power-TimeslotLCR-InformationItem
                                                                                                                        PRESENCE optional }|
                                                            CRITICALITY iqnore
                                                                                  EXTENSION DL-Power
    -- Applicable to 1.28Mcps TDD only
    { ID id-Maximum-DL-Power-TimeslotLCR-InformationItem
                                                             CRITICALITY ignore
                                                                                  EXTENSION DL-Power
                                                                                                                        PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-Minimum-DL-Power-TimeslotLCR-InformationItem CRITICALITY ignore
                                                                                 EXTENSION DL-Power
                                                                                                                        PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
DL-Timeslot768-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot768-InformationItem
DL-Timeslot768-InformationItem := SEOUENCE {
    timeSlot
                                            TimeSlot.
    midambleShiftAndBurstType768
                                            MidambleShiftAndBurstType768,
    tFCI-Presence
                                            TFCI-Presence.
    dL-Code-768-Information
                                            TDD-DL-Code-768-Information,
                                            ProtocolExtensionContainer { { DL-Timeslot768-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
DL-Timeslot768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    . . .
3
DL-or-Global-CapacityCredit ::= INTEGER (0..65535)
DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
DLPowerAveragingWindowSize ::= INTEGER (1..60)
DL-PowerBalancing-Information ::= SEQUENCE {
    powerAdjustmentType
                                        PowerAdjustmentType,
    dLReferencePower
                                                        OPTIONAL,
                                        DL-Power
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
    dLReferencePowerList-DL-PC-Rqst
                                        DL-ReferencePowerInformationList
                                                                                 OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'
    maxAdjustmentStep
                                        MaxAdjustmentStep
                                                                 OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                        AdjustmentPeriod
    adjustmentPeriod
                                                                 OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
    adjustmentRatio
                                        ScaledAdjustmentRatio OPTIONAL,
    -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                        ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-PowerBalancing-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
DL-ReferencePowerInformationList
                                       ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dl-Reference-Power
                                DL-Power,
                                ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {
    dL-PowerBalancing-Activated
}
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED {
    dL-PowerBalancing-Updated
DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
DL-TimeslotISCP ::= INTEGER (0..91)
DL-TimeslotISCPInfo ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem
DL-TimeslotISCPInfoItem ::= SEQUENCE {
    timeSlot
                               TimeSlot,
    dL-TimeslotISCP
                               DL-TimeslotISCP,
                             ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs } }
   iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR
DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
    timeSlotLCR
                           TimeSlotLCR
    dL-TimeslotISCP
                             DL-TimeslotISCP,
    iE-Extensions
                               ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }
                                                                                                                         OPTIONAL
    . . .
    }
DL-TimeslotISCPInfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
DL-TPC-Pattern01Count ::= INTEGER (0..30,...)
DLTransmissionBranchLoadValue ::= INTEGER (0..101,...)
Downlink-Compressed-Mode-Method
                                     ::= ENUMERATED {
    not-Used-puncturing,
    sFdiv2.
    higher-layer-scheduling,
    . . .
DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
    . . .
DPCH-ID ::= INTEGER (0..239)
DPCH-ID768 ::= INTEGER (0..479)
DRX-Information ::= SEQUENCE {
    uE-DRX-Cycle
                                             UE-DRX-Cycle,
    inactivity-Threshold-for-UE-DRX-Cycle
                                                                      Inactivity-Threshold-for-UE-DRX-Cycle,
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                      Inactivity-Threshold-for-UE-Grant-Monitoring,
    uE-DRX-Grant-Monitoring
                                             UE-DRX-Grant-Monitoring,
                                             ProtocolExtensionContainer { {DRX-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
DRX-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DRX-Information-to-Modify ::= CHOICE {
                    DRX-Information-to-Modify-Items,
    modify
    deactivate
                    NULL,
    . . .
}
DRX-Information-to-Modify-Items ::= SEQUENCE {
    uE-DRX-Cycle
                                                                      UE-DRX-Cycle
                                                                                                                       OPTIONAL,
    inactivity-Threshold-for-UE-DRX-Cycle
                                                                      Inactivity-Threshold-for-UE-DRX-Cycle
                                                                                                                       OPTIONAL,
    inactivity-Threshold-for-UE-Grant-Monitoring
                                                                      Inactivity-Threshold-for-UE-Grant-Monitoring
                                                                                                                       OPTIONAL,
    uE-DRX-Grant-Monitoring
                                                                      UE-DRX-Grant-Monitoring
                                                                                                                       OPTIONAL,
                                                  ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DRX-Information-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

. . .

```
}
DSCH-ID ::= INTEGER (0..255)
DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem
DSCH-InformationResponseItem ::= SEQUENCE {
    dSCH-ID
                                                     DSCH-ID.
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DSCH-InformationResponseItem-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
٦
DSCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem
DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID
                                             DSCH-ID,
    cCTrCH-ID
                                             CCTrCH-ID,
    transportFormatSet
                                             TransportFormatSet,
    allocationRetentionPriority
                                             AllocationRetentionPriority,
    frameHandlingPriority
                                             FrameHandlingPriority,
                                             TOAWS,
    toAWS
    toAWE
                                             TOAWE,
                                             ProtocolExtensionContainer { { DSCH-TDD-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID
                                         CRITICALITY ignore
                                                                                                                       PRESENCE optional } |
                                                                 EXTENSION
                                                                             BindingID
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-transportlayeraddress
                                                                 EXTENSION
                                                                                                                       PRESENCE optional } |
                                        CRITICALITY ignore
                                                                             TransportLayerAddress
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlOos
                                         CRITICALITY ignore
                                                                                                                       PRESENCE optional },
                                                                 EXTENSION TnlOos
    . . .
}
DsField ::= BIT STRING (SIZE (8))
DTX-Cycle-2ms-Items ::= SEQUENCE {
    uE-DTX-Cvcle1-2ms
                                     UE-DTX-Cvcle1-2ms,
    uE-DTX-Cycle2-2ms
                                     UE-DTX-Cycle2-2ms,
                                     MAC-DTX-Cycle-2ms,
    mAC-DTX-Cycle-2ms
                                                 ProtocolExtensionContainer { { DTX-Cycle-2ms-Items-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
DTX-Cycle-2ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
DTX-Cycle-2ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-2ms
                                   UE-DTX-Cycle1-2ms,
   uE-DTX-Cycle2-2ms
                                    UE-DTX-Cycle2-2ms,
    mAC-DTX-Cycle-2ms
                                    MAC-DTX-Cycle-2ms,
    iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-2ms-to-Modify-Items-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
DTX-Cycle-2ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DTX-Cycle-10ms-Items ::= SEQUENCE {
    uE-DTX-Cycle1-10ms
                                    UE-DTX-Cycle1-10ms,
    uE-DTX-Cycle2-10ms
                                    UE-DTX-Cycle2-10ms,
                                    MAC-DTX-Cycle-10ms,
   mAC-DTX-Cycle-10ms
    iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-10ms-Items-ExtIEs} }
                                                                                                                           OPTIONAL,
    . . .
3
DTX-Cycle-10ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DTX-Cycle-10ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-10ms
                                    UE-DTX-Cycle1-10ms,
    uE-DTX-Cycle2-10ms
                                    UE-DTX-Cycle2-10ms,
   mAC-DTX-Cycle-10ms
                                    MAC-DTX-Cycle-10ms,
                                                 ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
DTX-Cycle-10ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DTX-Information ::= SEQUENCE {
    e-DCH-TTI-Length
                                        E-DCH-TTI-Length,
    inactivity-Threshold-for-UE-DTX-Cycle2
                                                             Inactivity-Threshold-for-UE-DTX-Cycle2,
    uE-DTX-Long-Preamble
                                        UE-DTX-Long-Preamble,
    mAC-Inactivity-Threshold
                                            MAC-Inactivity-Threshold
    cQI-DTX-Timer
                                COI-DTX-Timer,
    uE-DPCCH-burst1
                                UE-DPCCH-burst1,
    uE-DPCCH-burst2
                                UE-DPCCH-burst2,
                                ProtocolExtensionContainer { {DTX-Information-ExtlEs} } OPTIONAL,
    iE-Extensions
    . . .
ļ
DTX-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
DTX-Information-to-Modify ::= CHOICE {
   modify
                  DTX-Information-to-Modify-Items,
   deactivate
                  NULL.
    . . .
3
DTX-Information-to-Modify-Items ::= SEQUENCE {
    e-DCH-TTI-Length-to-Modify
                                  E-DCH-TTI-Length-to-Modify
                                                                    OPTIONAL,
   inactivity-Threshold-for-UE-DTX-Cycle2
                                                        Inactivity-Threshold-for-UE-DTX-Cycle2
                                                                                                          OPTIONAL,
   uE-DTX-Long-Preamble
                                 UE-DTX-Long-Preamble
                                                                    OPTIONAL,
   mAC-Inactivity-Threshold
                                     MAC-Inactivity-Threshold
                                                                           OPTIONAL,
   cQI-DTX-Timer
                                 CQI-DTX-Timer
                                                                    OPTIONAL,
   uE-DPCCH-burst1
                                 UE-DPCCH-burst1
                                                                    OPTIONAL,
   uE-DPCCH-burst2
                                 UE-DPCCH-burst2
                                                                    OPTIONAL,
   iE-Extensions
                                 ProtocolExtensionContainer { {DTX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
    . . .
DTX-Information-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DwPCH-Power ::= INTEGER (-150..400,...)
-- DwPCH-power = power * 10
-- If power <= -15 DwPCH shall be set to -150
-- If power >= 40 DwPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
-- E
E-AGCH-Table-Choice ::= ENUMERATED{table16B, table16B-12, ...}
E-AGCH-FDD-Code-Information ::= CHOICE {
                          E-AGCH-FDD-Code-List,
   replace
   remove
                          NULL,
    . . .
}
E-AGCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-AGCHs)) OF FDD-DL-ChannelisationCodeNumber
E-DCH-Capability ::= ENUMERATED {
   e-DCH-capable,
   e-DCH-non-capable
}
E-DCHCapacityConsumptionLaw ::= SEQUENCE {
       e-DCH-SF-allocation E-DCH-SF-allocation,
       dl-Cost-1
                            INTEGER (0..65535)
                                                                                                                OPTIONAL,
       dl-Cost-2
                           INTEGER (0..65535)
                                                                                                                OPTIONAL,
```

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ProtocolExtensionContainer { { E-DCHCapacityConsumptionLaw-ExtIEs } }
        iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
}
E-DCHCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-DCH-TDD-CapacityConsumptionLaw ::= SEQUENCE {
       ul-Cost INTEGER (0..65535),
       dl-Cost
                           INTEGER (0..65535)
                                                                                                                    OPTIONAL,
       iE-Extensions
                         ProtocolExtensionContainer { { E-DCH-TDD-CapacityConsumptionLaw-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
}
E-DCH-TDD-CapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-DCH-SF-allocation ::= SEQUENCE ( SIZE(1..maxNrOfCombEDPDCH) ) OF
    SEQUENCE {
       ul-Cost-1
                      INTEGER (0..65535),
       ul-Cost-2 INTEGER (0..65535),
       iE-Extensions ProtocolExtensionContainer { { E-DCH-SF-allocation-ExtIEs } }
                                                                                                OPTIONAL.
    . . .
}
E-DCH-SF-allocation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-DCH-TTI2ms-Capability ::= BOOLEAN
-- True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH
E-DCH-SF-Capability ::= ENUMERATED {
    sf64.
    sf32,
    sf16,
    sf8,
    sf4,
    sf4x2,
    sf2x2,
    sf4x2-and-sf2x2,
    . . .
E-DCH-HARQ-Combining-Capability ::= ENUMERATED {
    iR-Combining-capable,
    chase-Combining-capable,
    iR-and-Chase-Combining-capable
}
E-DCH-DDI-Value ::= INTEGER (0..62)
```

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E-DCH-FDD-DL-Control-Channel-Information ::= SEQUENCE { e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code DL-ScramblingCode OPTIONAL. e-AGCH-Channelisation-Code FDD-DL-ChannelisationCodeNumber OPTIONAL. primary-e-RNTI E-RNTI OPTIONAL. secondary-e-RNTI E-RNTT OPTIONAL. e-RGCH-E-HICH-Channelisation-Code FDD-DL-ChannelisationCodeNumber OPTIONAL, e-RGCH-Signature-Sequence E-RGCH-Signature-Sequence OPTIONAL, e-HICH-Signature-Sequence E-HICH-Signature-Sequence OPTIONAL, serving-Grant-Value E-Serving-Grant-Value OPTIONAL, primary-Secondary-Grant-Selector E-Primary-Secondary-Grant-Selector OPTIONAL, e-RGCH-Release-Indicator E-RGCH-Release-Indicator OPTIONAL, iE-Extensions ProtocolExtensionContainer { { E-DCH-FDD-DL-Control-Channel-Information-ExtIEs } } OPTIONAL, . . . E-DCH-FDD-DL-Control-Channel-Information-Extles NBAP-PROTOCOL-EXTENSION ::= CRITICALITY ignore { ID id-Default-Serving-Grant-in-DTX-Cycle2 EXTENSION E-Serving-Grant-Value PRESENCE optional }, . . . } E-DCH-FDD-Information ::= SEQUENCE { e-DCH-MACdFlows-Information E-DCH-MACdFlows-Information, hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL, E-DCH-Maximum-Bitrate e-DCH-Maximum-Bitrate OPTIONAL, e-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL, e-DCH-Reference-Power-Offset E-DCH-Reference-Power-Offset OPTIONAL, iE-Extensions ProtocolExtensionContainer { { E-DCH-FDD-Information-ExtIEs } OPTIONAL, . . . E-DCH-FDD-Information-Extles NBAP-PROTOCOL-EXTENSION ::= { ID id-E-DCH-PowerOffset-for-SchedulingInfo CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo PRESENCE optional } ID id-SixteenQAM-UL-Operation-Indicator CRITICALITY reject EXTENSION SixteenQAM-UL-Operation-Indicator PRESENCE optional } PRESENCE conditional }, ID id-E-AGCH-Table-Choice CRITICALITY ignore EXTENSION E-AGCH-Table-Choice -- The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to 'Activate'--. . . E-DCH-FDD-Information-Response ::= SEQUENCE { e-DCH-MACdFlow-Specific-InformationResp E-DCH-MACdFlow-Specific-InformationResp OPTIONAL, hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL, iE-Extensions ProtocolExtensionContainer { { E-DCH-FDD-Information-Response-ExtlEs } } OPTIONAL, . . . E-DCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-FDD-Information-to-Modify ::= SEQUENCE { e-DCH-MACdFlow-Specific-Info-to-Modify E-DCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL, hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL, e-DCH-Maximum-Bitrate E-DCH-Maximum-Bitrate OPTIONAL,

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e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                                          OPTIONAL,
    e-DCH-Reference-Power-Offset
                                                     E-DCH-Reference-Power-Offset
                                                                                                                                          OPTIONAL.
    mACeReset-Indicator
                                                    MACeReset-Indicator
                                                                                                                                          OPTIONAL.
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Information-to-Modify-ExtIEs} } 
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-FDD-Information-to-Modify-Extles NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-PowerOffset-for-SchedulingInfo
                                                             CRITICALITY ignore EXTENSION
                                                                                             E-DCH-PowerOffset-for-SchedulingInfo
    PRESENCE optional }
    { ID id-SixteenQAM-UL-Operation-Indicator
                                                             CRITICALITY reject EXTENSION
                                                                                             SixteenQAM-UL-Operation-Indicator
    PRESENCE optional } |
    { ID id-E-DCH-DL-Control-Channel-Grant-Information
                                                             CRITICALITY ignore EXTENSION
                                                                                             E-DCH-DL-Control-Channel-Grant-Information
    PRESENCE optional }
    { ID id-E-AGCH-Table-Choice
                                                             CRITICALITY ignore EXTENSION
                                                                                             E-AGCH-Table-Choice
    PRESENCE conditional },
    -- The IE shall be present if the SixteenOAM UL Operation Indicator IE is set to 'Activate'--
E-DCH-FDD-Update-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-UpdateInformation
                                                     E-DCH-MACdFlow-Specific-UpdateInformation
                                                                                                                                          OPTIONAL,
    hARQ-Process-Allocation-Scheduled-2ms-EDCH
                                                    HARQ-Process-Allocation-2ms-EDCH
                                                                                                                                          OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-E-DCH-DL-Control-Channel-Change-Information
                                                                 CRITICALITY ignore EXTENSION E-DCH-DL-Control-Channel-Change-Information
    PRESENCE optional },
    . . .
E-DCH-MACdFlow-Specific-UpdateInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-UpdateInformation-Item
E-DCH-MACdFlow-Specific-UpdateInformation-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    hARO-Process-Allocation-NonSched-2ms-EDCH
                                                    HARO-Process-Allocation-2ms-EDCH
                                                                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs } }
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-DL-Control-Channel-Change-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Change-Information-Item
E-DCH-DL-Control-Channel-Change-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
                                            RL-ID,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs } OPTIONAL,
```

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}
E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ļ
E-DCH-DL-Control-Channel-Grant-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Grant-Information-Item
E-DCH-DL-Control-Channel-Grant-Information-Item ::= SEQUENCE {
    e-DCH-RL-ID
                                            RL-ID,
    iE-Extensions
                                            ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs } OPTIONAL,
    . . .
٦
E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Grant-Type-Information ::= CHOICE {
    e-DCH-Non-Scheduled-Transmission-Grant
                                                E-DCH-Non-Scheduled-Transmission-Grant-Items,
    e-DCH-Scheduled-Transmission-Grant
                                                NULL,
    . . .
l
E-DCH-LogicalChannelInformation ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelInformationItem
E-DCH-LogicalChannelInformationItem ::= SEQUENCE
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    schedulingInformation
                                    SchedulingInformation,
    mACesGuaranteedBitRate
                                    MACesGuaranteedBitRate
                                                                OPTIONAL,
    e-DCH-DDI-Value
                                    E-DCH-DDI-Value,
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL.
    . . .
E-DCH-LogicalChannelInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-MACes-Maximum-Bitrate-LCR
                                            CRITICALITY ignore
                                                                     EXTENSION MACes-Maximum-Bitrate-LCR
                                                                                                               PRESENCE optional }, --1.28Mcps TDD
only
    . . .
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEQUENCE (SIZE (1.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
```

```
E-DCH-MACdPDU-SizeListItem ::= SEQUENCE {
    mACdPDU-Size
                                    MACdPDU-Size.
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }
                                                                                                                  OPTIONAL.
    . . .
E-DCH-MACdPDU-SizeListItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-LogicalChannelToModify ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToModifyItem
E-DCH-LogicalChannelToModifyItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator
                                                                     OPTIONAL,
    schedulingInformation
                                    SchedulingInformation
                                                                OPTIONAL,
                                    MACesGuaranteedBitRate
    mACesGuaranteedBitRate
                                                                OPTIONAL,
    e-DCH-DDI-Value
                                    E-DCH-DDI-Value
                                                                     OPTIONAL,
                                    E-DCH-MACdPDU-SizeToModifyList,
    mACd-PDU-Size-List
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
E-DCH-LogicalChannelToModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-MACes-Maximum-Bitrate-LCR
                                        CRITICALITY ignore
                                                                EXTENSION MACes-Maximum-Bitrate-LCR
                                                                                                            PRESENCE optional }, --1.28Mcps TDD only
    . . .
E-DCH-MACdPDU-SizeToModifyList ::= SEQUENCE (SIZE (0.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-LogicalChannelToDelete ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToDeleteItem
E-DCH-LogicalChannelToDeleteItem ::= SEQUENCE {
    logicalChannelId
                                    LogicalChannelID,
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToDeleteItem-ExtIEs } }
                                                                                                                        OPTIONAL,
E-DCH-LogicalChannelToDeleteItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
LogicalChannelID ::= INTEGER (1..15)
E-DCH-HARQ-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
E-DCH-MACdFlows-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info
                                                     E-DCH-MACdFlow-Specific-InfoList,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlows-Information-ExtIEs } }
                                                                                                                                          OPTIONAL,
```

```
. . .
E-DCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMACdFlows) )
E-DCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem
E-DCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority,
    tnl0os
                                                     Tnl0os
                                                                                                                                          OPTIONAL,
    payloadCRC-PresenceIndicator
                                                     PayloadCRC-PresenceIndicator,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH,
    eDCH-HARO-PO-FDD
                                                     E-DCH-HARO-PO-FDD,
                                                     E-DCH-MACdFlow-Multiplexing-List
    eDCH-MACdFlow-Multiplexing-List
                                                                                                                                           OPTIONAL,
    eDCH-Grant-Type-Information
                                                     E-DCH-Grant-Type-Information,
    bundlingModeIndicator
                                                     BundlingModeIndicator
                                                                                                                        OPTIONAL,
                                                     E-DCH-LogicalChannelInformation,
    eDCHLogicalChannelInformation
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotReguestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotReguestedIndicator PRESENCE optional },
    . . .
}
E-DCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InformationResp-Item
E-DCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                                                                          OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                                                                          OPTIONAL,
    hARO-Process-Allocation-NonSched-2ms-EDCH
                                                     HARO-Process-Allocation-2ms-EDCH
                                                                                                                                           OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                     PRESENCE optional }, -- FDD only
    . . .
}
E-DCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem-to-Modify
E-DCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                    AllocationRetentionPriority
                                                                                                                                          OPTIONAL,
    transportBearerRequestIndicator
                                                    TransportBearerRequestIndicator,
```

```
Tnl0os
    tnlOos
                                                                                                                                            OPTIONAL,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH
                                                                                                                                            OPTIONAL.
    eDCH-HARO-PO-FDD
                                                     E-DCH-HARO-PO-FDD
                                                                                                                                            OPTIONAL.
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                                                            OPTIONAL.
    eDCH-Grant-Type-Information
                                                     E-DCH-Grant-Type-Information
                                                                                                                                            OPTIONAL.
    bundlingModeIndicator
                                                     BundlingModeIndicator
                                                                                                                                            OPTIONAL,
                                                     E-DCH-LogicalChannelInformation
    eDCH-LogicalChannelToAdd
                                                                                                                                            OPTIONAL,
    eDCH-LogicalChannelToModify
                                                     E-DCH-LogicalChannelToModify
                                                                                                                                            OPTIONAL,
    eDCH-LogicalChannelToDelete
                                                     E-DCH-LogicalChannelToDelete
                                                                                                                                            OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-MACdFlow-Specific-InfoItem-to-Modify-Extles NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-to-Delete-Item
E-DCH-MACdFlow-to-Delete-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-Item-ExtIEs } }
    iE-Extensions
                                                                                                                                            OPTIONAL,
    . . .
E-DCH-MACdFlow-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-Non-Scheduled-Transmission-Grant-Items ::= SEQUENCE
    -- The following IE shall be ignored if id-Ext-Max-Bits-MACe-PDU-non-scheduled is present in E-DCH-Non-Scheduled-Transmission-Grant-Items-
ExtIEs
    maxBits-MACe-PDU-non-scheduled
                                                 Max-Bits-MACe-PDU-non-scheduled,
    hARO-Process-Allocation-NonSched-2ms
                                                 HARO-Process-Allocation-2ms-EDCH
                                                                                                                                            OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    -- The following IE shall be present if the maximum number of bits to be signalled exceeds maxNrOfBits-MACe-PDU-non-scheduled
    { ID id-Ext-Max-Bits-MACe-PDU-non-scheduled
                                                     CRITICALITY reject
                                                                              EXTENSION Ext-Max-Bits-MACe-PDU-non-scheduled
                                                                                                                                   PRESENCE optional },
    . . .
}
E-DCH-Non-serving-Relative-Grant-Down-Commands ::= INTEGER (0..100,...)
E-DCHProvidedBitRateValue ::= INTEGER(0..16777215,...,16777216..25600000)
-- Unit bit/s, Range 0..2<sup>2</sup>24-1..2<sup>2</sup>24..256,000,000, Step 1 bit
Maximum-Target-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [22]
Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio ::= INTEGER (0..100)
```

```
-- Unit %, Range 0..100%, Step 1%
E-DCH-RL-Indication ::= ENUMERATED {
    e-DCH,
    non-e-DCH
}
E-DCH-Serving-Cell-Change-Info-Response ::= SEQUENCE
                                    E-DCH-serving-cell-choice,
    e-DCH-serving-cell-choice
    iE-Extensions
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-informationResponse-ExtIEs } } OPTIONAL,
    . . .
ι
E-DCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-choice ::= CHOICE
    e-DCH-serving-cell-change-successful
                                                E-DCH-serving-cell-change-successful,
    e-DCH-serving-cell-change-unsuccessful
                                                E-DCH-serving-cell-change-unsuccessful,
    . . .
}
E-DCH-serving-cell-change-successful ::= SEQUENCE {
    e-DCH-RL-InformationList-Rsp
                                            E-DCH-RL-InformationList-Rsp,
                                        ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
E-DCH-RL-InformationList-Rsp ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF E-DCH-RL-InformationList-Rsp-Item
E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
    rl-ID
                                        RL-ID,
    e-DCH-FDD-DL-Control-Channel-Info E-DCH-FDD-DL-Control-Channel-Information,
                                                     ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
E-DCH-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
E-DCH-RL-InformationList-Rsp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
    cause
                                    Cause,
                                    ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
```

```
E-DCH-serving-cell-change-unsuccessful-Extles NBAP-PROTOCOL-EXTENSION ::= {
```

```
ETSI
```

```
. . .
}
E-DCH-TFCI-Table-Index ::= INTEGER (0..1,...,2..7)
E-DCH-TTI-Length ::= CHOICE {
    two-ms
                DTX-Cycle-2ms-Items,
    ten-ms
                DTX-Cycle-10ms-Items,
    . . .
E-DCH-TTI-Length-to-Modify ::= CHOICE {
    two-ms
                DTX-Cycle-2ms-to-Modify-Items,
                DTX-Cycle-10ms-to-Modify-Items,
    ten-ms
    . . .
3
E-DPCCH-PO ::= INTEGER (0..maxNrOfEDPCCH-PO-QUANTSTEPs)
E-DPDCH-PowerInterpolation ::= BOOLEAN
E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
    primary,
    secondary
}
E-HICH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    end-of-audit-sequence,
    not-end-of-audit-sequence
}
E-Serving-Grant-Value ::= INTEGER (0..38)
E-RGCH-2-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-3-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-E-HICH-FDD-Code-Information ::= CHOICE {
                            E-RGCH-E-HICH-FDD-Code-List,
    replace
    remove
                            NULL,
    . . .
E-RGCH-E-HICH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-RGCHs-E-HICHs)) OF FDD-DL-ChannelisationCodeNumber
E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
E-RGCH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
E-RNTI ::= INTEGER (0..65535)
```

```
E-TFCI := INTEGER (0..127)
E-TFCI-BetaEC-Boost ::= INTEGER (0..127,...)
E-TFCI-Boost-Information ::= SEQUENCE {
    e-TFCI-BetaEC-Boost
                                                     E-TFCI-BetaEC-Boost,
    uL-Delta-T2TP
                                                     UL-Delta-T2TP
                                                                             OPTIONAL,
    -- This IE shall be present if the E-TFCI BetaEC Boost IE value is not set to 127.
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-TFCI-Boost-Information-ExtIEs} }
                                                                                                                            OPTIONAL,
    . . .
E-TFCI-Boost-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-TFCS-Information ::= SEQUENCE {
                                                         E-DCH-TFCI-Table-Index,
    e-DCH-TFCI-Table-Index
    e-DCH-Min-Set-E-TFCI
                                                     E-TFCI
                                                                     OPTIONAL,
    reference-E-TFCI-Information
                                                     Reference-E-TFCI-Information,
    iE-Extensions
                                                     ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
}
E-TFCS-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
      ID id-E-TFCI-Boost-Information
                                            CRITICALITY reject
                                                                     EXTENSION E-TFCI-Boost-Information
                                                                                                                         PRESENCE optional } |
    { ID id-E-DPDCH-PowerInterpolation CRITICALITY reject
                                                                 EXTENSION E-DPDCH-PowerInterpolation
                                                                                                                      PRESENCE optional },
    . . .
E-TTI ::= ENUMERATED {
    e-TTI-2ms,
    e-TTI-10ms
}
E-DCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF E-DCHProvidedBitRate-Item
E-DCHProvidedBitRate-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator,
    e-DCHProvidedBitRateValue
                                        E-DCHProvidedBitRateValue,
                                         ProtocolExtensionContainer { { E-DCHProvidedBitRate-Item-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
E-DCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
```

```
E-RGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-TimeOffset ::= INTEGER (4..44)
E-HICH-TimeOffsetLCR ::= INTEGER (4..15)
E-DCH-Information ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD,
    e-DCH-MACdFlows-Information-TDD
                                                 E-DCH-MACdFlows-Information-TDD,
    e-DCH-Non-Scheduled-Grant-Info
                                                 E-DCH-Non-Scheduled-Grant-Info OPTIONAL,
    e-DCH-TDD-Information
                                                 E-DCH-TDD-Information,
                                                 ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
E-DCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-Information ::= SEQUENCE {
    minCR
                                                 CodeRate,
    maxCR
                                                 CodeRate,
    harqInfo
                                                 HARQ-Info-for-E-DCH,
    n-E-UCCH
                                                 N-E-UCCH,
                                                 ProtocolExtensionContainer { { E-PUCH-Information-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
E-PUCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-TFCS-Information-TDD ::= SEQUENCE {
                                                 E-DCH-QPSK-RefBetaInfo,
    e-DCH-QPSK-RefBetaInfo
                                                 E-DCH-sixteenOAM-RefBetaInfo,
    e-DCH-sixteenOAM-RefBetaInfo
                                                 ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
}
E-TFCS-Information-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-DCH-OPSK-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
```

```
E-DCH-sixteenOAM-RefBetaInfo ::= SEOUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-RefBeta-Item ::= SEQUENCE {
    refCodeRate
                            CodeRate-short.
                            RefBeta
    refBeta
E-DCH-MACdFlows-Information-TDD ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-InfoTDDItem
E-DCH-MACdFlow-InfoTDDItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority,
    tnl0os
                                                     TnlOos
                                                                                 OPTIONAL,
    bindingID
                                                     BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                 OPTIONAL,
    payloadCRC-PresenceIndicator
                                                     PayloadCRC-PresenceIndicator,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH,
    eDCH-HARO-PO-TDD
                                                     E-DCH-HARO-PO-TDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                            OPTIONAL,
    eDCH-Grant-TypeTDD
                                                     E-DCH-Grant-TypeTDD,
    eDCHLogicalChannelInformation
                                                     E-DCH-LogicalChannelInformation,
    eDCH-MACdFlow-Retransmission-Timer
                                                     E-DCH-MACdFlow-Retransmission-Timer
                                                                                             OPTIONAL,
    -- Mandatory for LCR TDD, Not applicable for 3.84Mcps TDD and 7.68Mcps TDD
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-InfoTDDItem-ExtIEs} }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
E-DCH-MACdFlow-InfoTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
E-DCH-MACdFlow-Retransmission-Timer ::= ENUMERATED {
    ms10, ms15, ms20, ms25, ms30, ms35, ms40, ms45, ms50, ms55, ms60, ms65,
   ms70, ms75, ms80, ms85, ms90, ms95, ms100, ms110, ms120, ms140, ms160,
    ms200, ms240, ms280, ms320, ms400, ms480, ms560,...
E-DCH-HARO-PO-TDD ::= INTEGER (0..6)
E-DCH-Grant-TypeTDD ::= ENUMERATED {
    scheduled.
    non-scheduled
E-DCH-Non-Scheduled-Grant-Info ::= SEOUENCE
    timeslotResource
                                                 E-DCH-TimeslotResource,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
    tdd-ChannelisationCode
                                                 TDD-ChannelisationCode,
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-ExtIEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
```

```
E-DCH-Non-Scheduled-Grant-Info-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TimeslotResource ::= BIT STRING (SIZE (13))
E-DCH-TimeslotResourceLCR := BIT STRING (SIZE (5))
E-DCH-PowerResource ::= INTEGER(1..32)
TddE-PUCH-Offset ::= INTEGER(0..255)
E-DCH-TDD-Information ::= SEQUENCE {
    e-DCH-TDD-Maximum-Bitrate
                                                    E-DCH-TDD-Maximum-Bitrate
                                                                                                                        OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                        OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                     E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                        OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
E-DCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Maximum-Bitrate ::= INTEGER (0..9201,...)
E-DCH-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
    e-AGCH-Specific-Information-ResponseTDD
                                                     E-AGCH-Specific-InformationRespListTDD OPTIONAL,
    e-RNTI
                                                     E-RNTI,
    scheduled-E-HICH-Specific-InformationResp
                                                     Scheduled-E-HICH-Specific-Information-ResponseLCRTDD
                                                                                                                     OPTIONAL, -- 1.28Mcps TDD only
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-ExtlEs } }
    iE-Extensions
                                                                                                                              OPTIONAL,
    . . .
E-DCH-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Scheduled-E-HICH-Specific-Information-ResponseLCRTDD ::= SEQUENCE (SIZE (1.. maxNrOfEHICHCodes)) OF Scheduled-E-HICH-Specific-InformationItem-
ResponseLCRTDD
Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD ::= SEQUENCE {
    eΙ
                                    EI,
    e-HICH-ID-TDD
                                    E-HICH-ID-TDD,
   iE-Extensions
                                                ProtocolExtensionContainer {{ Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs}}
   OPTIONAL,
    . . .
}
Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

{ ID id-Extended-E-HICH-ID-TDD CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional},

```
-- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
}
EI ::= INTEGER (0..3)
E-HICH-ID-TDD ::= INTEGER (0..31)
E-HICH-Type ::= ENUMERATED {scheduled, non-scheduled}
E-DCH-TDD-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-TDD-MACdFlow-Specific-InformationResp-Item
E-DCH-TDD-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    e-DCH-MacdFlow-Id
                                                     E-DCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                 OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-ItemTDD
E-AGCH-Specific-InformationResp-ItemTDD ::= SEQUENCE {
    e-AGCH-Id
                                                     E-AGCH-Id,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Id ::= INTEGER (0..31,...,32..255)
E-DCH-Information-Reconfig ::= SEQUENCE {
                                                 E-PUCH-Information
    e-PUCH-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                 E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                 E-DCH-MACdFlows-to-Delete
                                                                                                                      OPTIONAL,
                                                 E-DCH-Non-Scheduled-Grant-Info
    e-DCH-Non-Scheduled-Grant-Info
                                                                                                                      OPTIONAL.
    e-DCH-TDD-Information
                                                 E-DCH-TDD-Information
                                                                                                                      OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                 E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-Reconfig-ExtIEs } OPTIONAL,
    . . .
```

E-DCH-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

. . .

**ETSI** 

```
E-DCH-TDD-Information-to-Modify ::= SEQUENCE {
    e-DCH-TDD-Information-to-Modify-List
                                             E-DCH-TDD-Information-to-Modify-List
                                                                                      OPTIONAL.
                                                                                      OPTIONAL,
    mACeReset-Indicator
                                             MACeReset-Indicator
    iE-Extensions
                                             ProtocolExtensionContainer { { E-DCH-TDD-Information-to-Modify-ExtIEs } }
                                                                                                                            OPTIONAL.
    . . .
E-DCH-TDD-Information-to-Modify-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-ModifyTDDItem
E-DCH-MACdFlow-ModifyTDDItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                                                     E-DCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority
                                                                                      OPTIONAL,
    transportBearerReguestIndicator
                                                     TransportBearerRequestIndicator,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                  OPTIONAL,
    tnlQos
                                                     Tnl0os
                                                                                  OPTIONAL,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     Maximum-Number-of-Retransmissions-For-E-DCH
                                                                                                                       OPTIONAL,
                                                     E-DCH-HARQ-PO-TDD
    eDCH-HARQ-PO-TDD
                                                                                                          OPTIONAL,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                          OPTIONAL,
    eDCH-Grant-TypeTDD
                                                     E-DCH-Grant-TypeTDD
                                                                                                          OPTIONAL,
    e-DCH-LogicalChannelToAdd
                                                     E-DCH-LogicalChannelInformation
                                                                                                                       OPTIONAL,
    e-DCH-LogicalChannelToModify
                                                     E-DCH-LogicalChannelToModify
                                                                                                                       OPTIONAL,
    e-DCH-LogicalChannelToDelete
                                                     E-DCH-LogicalChannelToDelete
                                                                                                                       OPTIONAL,
                                                     E-DCH-MACdFlow-Retransmission-Timer
    eDCH-MACdFlow-Retransmission-Timer
                                                                                                                       OPTIONAL,
    -- LCR TDD only
                                                     ProtocolExtensionContainer { {E-DCH-MACdFlow-ModifyTDDItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-MACdFlow-ModifyTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [23]
E-DCH-768-Information ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD,
    e-DCH-MACdFlows-Information-TDD
                                                 E-DCH-MACdFlows-Information-TDD,
    e-DCH-Non-Scheduled-Grant-Info768
                                                 E-DCH-Non-Scheduled-Grant-Info768
                                                                                      OPTIONAL,
    e-DCH-TDD-Information768
                                                 E-DCH-TDD-Information768,
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
E-DCH-768-Information-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
E-DCH-Non-Scheduled-Grant-Info768 ::= SEQUENCE
    timeslotResource
                                                 E-DCH-TimeslotResource.
    powerResource
                                                 E-DCH-PowerResource.
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
    tdd-ChannelisationCode768
                                                 TDD-ChannelisationCode768
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info768-ExtIEs } }
                                                                                                                                  OPTIONAL,
E-DCH-Non-Scheduled-Grant-Info768-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Information768 ::= SEQUENCE {
                                                     E-DCH-TDD-Maximum-Bitrate768
    e-DCH-TDD-Maximum-Bitrate768
                                                                                                                         OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                     E-DCH-Processing-Overload-Level
                                                                                                                         OPTIONAL,
    e-DCH-PowerOffset-for-SchedulingInfo
                                                     E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                         OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information768-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
E-DCH-TDD-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
E-DCH-TDD-Maximum-Bitrate768 ::= INTEGER (0..17713,...)
E-DCH-768-Information-Reconfig ::= SEQUENCE {
    e-PUCH-Information
                                                 E-PUCH-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                 E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                 E-DCH-MACdFlows-to-Delete
                                                                                                                      OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info768
                                                 E-DCH-Non-Scheduled-Grant-Info768
                                                                                                                         OPTIONAL,
    e-DCH-TDD-Information768
                                                 E-DCH-TDD-Information768
                                                                                                                         OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                 E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs } } OPTIONAL,
    . . .
}
E-DCH-768-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-LCR-Information ::= SEOUENCE {
    e-PUCH-LCR-Information
                                                 E-PUCH-LCR-Information,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD.
    e-DCH-MACdFlows-Information-TDD
                                                 E-DCH-MACdFlows-Information-TDD,
    e-DCH-Non-Scheduled-Grant-LCR-Info
                                                 E-DCH-Non-Scheduled-Grant-LCR-Info OPTIONAL,
    e-DCH-LCRTDD-Information
                                                 E-DCH-LCRTDD-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-LCR-Information-ExtIEs } }
                                                                                                                         OPTIONAL,
```

```
}
E-DCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
E-PUCH-LCR-Information ::= SEQUENCE {
    minCR
                                                 CodeRate,
    maxCR
                                                 CodeRate,
    harqInfo
                                                 HARQ-Info-for-E-DCH,
    pRXdes-base
                                                 PRXdes-base,
    e-PUCH-TPC-StepSize
                                                 TDD-TPC-UplinkStepSize-LCR,
    e-AGCH-TPC-StepSize
                                                 TDD-TPC-DownlinkStepSize,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-PUCH-LCR-Information-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
E-PUCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-E-PUCH-PowerControlGAP
                                         CRITICALITY ignore
                                                                  EXTENSION ControlGAP
                                                                                               PRESENCE optional
                                                                                                                       },
    . . .
E-DCH-Non-Scheduled-Grant-LCR-Info ::= SEQUENCE {
    timeslotResourceLCR
                                                 E-DCH-TimeslotResourceLCR,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
                                                 RepetitionLength,
    repetitionLength
    subframeNumber
                                                 ENUMERATED {v0, v1},
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
                                                 TDD-ChannelisationCode,
    tdd-ChannelisationCode
    n-E-UCCHLCR
                                                 N-E-UCCHLCR,
    e-HICH-LCR-Information
                                                 E-HICH-LCR-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-LCR-Information ::= SEQUENCE {
    e-HICH-ID-TDD
                                             E-HICH-ID-TDD,
    signatureSequenceGroupIndex
                                                 SignatureSequenceGroupIndex,
                                                 ProtocolExtensionContainer { { E-HICH-LCR-Information-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
E-HICH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD
                                         CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD
                                                                                                   PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
    . . .
}
E-DCH-LCRTDD-Information ::= SEQUENCE {
```

```
e-DCH-LCRTDD-PhysicalLayerCategory
                                                 E-DCH-LCRTDD-PhysicalLayerCategory
                                                                                                                      OPTIONAL,
    e-DCH-Processing-Overload-Level
                                                 E-DCH-Processing-Overload-Level
                                                                                                                      OPTIONAL.
    e-DCH-PowerOffset-for-SchedulingInfo
                                                 E-DCH-PowerOffset-for-SchedulingInfo
                                                                                                                      OPTIONAL.
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-LCRTDD-Information-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
E-DCH-LCRTDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory
                                                             CRITICALITY reject
                                                                                                                      EXTENSION Extended-E-DCH-LCRTDD-
                                PRESENCE optional }
PhysicalLayerCategory
    -- This IE shall be used if the E-DCH Physical Layer Category has a value larger than 5.
    { ID id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION Maximum-Number-of-
                                PRESENCE optional }|
Retransmissions-For-E-DCH
    { ID id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION E-DCH-MACdFlow-
Retransmission-Timer
                                PRESENCE optional },
    . . .
E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(1..5)
E-DCH-LCR-Information-Reconfig ::= SEQUENCE {
    e-PUCH-LCR-Information
                                                 E-PUCH-LCR-Information
                                                                                                                      OPTIONAL,
    e-TFCS-Information-TDD
                                                 E-TFCS-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Add
                                                 E-DCH-MACdFlows-Information-TDD
                                                                                                                      OPTIONAL,
    e-DCH-MACdFlows-to-Delete
                                                 E-DCH-MACdFlows-to-Delete
                                                                                                                      OPTIONAL,
    e-DCH-Non-Scheduled-Grant-LCR-Info
                                                 E-DCH-Non-Scheduled-Grant-LCR-Info
                                                                                                                      OPTIONAL,
    e-DCH-LCRTDD-Information
                                                 E-DCH-LCRTDD-Information
                                                                                                                      OPTIONAL,
                                                 E-DCH-TDD-Information-to-Modify
    e-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL,
                                                 ProtocolExtensionContainer { { E-DCH-LCR-Information-Reconfig-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
E-DCH-LCR-Information-Reconfig-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Enabling-Delay ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128}
    -- Unit of radio frames
Enhanced-FACH-Capability ::= ENUMERATED {
    enhanced-FACH-capable,
    enhanced-FACH-non-capable
}
Enhanced-PCH-Capability ::= ENUMERATED {
    enhanced-PCH-capable,
    enhanced-PCH-non-capable
}
Extended-E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(6,...)
Ext-Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(19983..22978,...)
```

```
Ext-Reference-E-TFCI-PO ::= INTEGER(30..31,...)
ExtendedPropagationDelay ::= INTEGER(255..1023)
Extended-RNC-ID
                              ::= INTEGER (4096..65535)
Extended-Round-Trip-Time-Value ::= INTEGER(32767..103041)
-- See also mapping in [22]
Extended-HS-SCCH-ID
                                 ::= INTEGER (32..255)
Extended-HS-SICH-ID
                                 ::= INTEGER (32..255)
Extended-E-HICH-ID-TDD
                                  ::= INTEGER (32..255)
-- F
FACH-Measurement-Occasion-Cycle-Length-Coefficient ::= INTEGER(1..12)
Fast-Reconfiguration-Mode ::= ENUMERATED {fast,...}
Fast-Reconfiguration-Permission ::= ENUMERATED {allowed,...}
FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511)
-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
   dl-ScramblingCode
                                          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber
                                          FDD-DL-ChannelisationCodeNumber,
    transmissionGapPatternSequenceCodeInformation
                                                     TransmissionGapPatternSequenceCodeInformation
                                                                                                                 OPTIONAL,
                                          ProtocolExtensionContainer { { FDD-DL-CodeInformationItem-ExtIEs } }
   iE-Extensions
                                                                                                              OPTIONAL,
    . . .
FDD-DL-CodeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FDD-S-CCPCH-FrameOffset ::= ENUMERATED {
   v1, v2, v4, ...
}
FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [7] --
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
```

```
. . .
}
F-DPCH-Capability ::= ENUMERATED {
   f-DPCH-capable,
   f-DPCH-non-capable
}
F-DPCH-SlotFormat ::= INTEGER (0..9)
F-DPCH-SlotFormatCapability ::= ENUMERATED {
   f-DPCH-slot-format-capable,
   f-DPCH-slot-format-non-capable
}
FirstRLS-Indicator ::= ENUMERATED {
   first-RLS,
   not-first-RLS,
   . . .
}
FNReportingIndicator ::= ENUMERATED {
fN-reporting-required,
fN-reporting-not-required
}
FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lowest priority, 15=highest priority --
FrameAdjustmentValue ::= INTEGER(0..4095)
FrameOffset ::= INTEGER (0..255)
FPACH-Power ::= INTEGER (-150..400,...) -- FPACH-power = power * 10
-- If power <= -15 FPACH shall be set to -150
-- If power >= 40 FPACH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
-- G
GANSS-Almanac ::= SEQUENCE {
   ganss-wk-number
                                     INTEGER(0..255),
   gANSS-AlmanacModel
                                     GANSS-AlmanacModel,
                                     ProtocolExtensionContainer { { GANSS-Almanac-ExtIEs } }
   ie-Extensions
}
GANSS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
```

OPTIONAL,

```
}
GANSS-AlmanacModel ::= CHOICE {
    qANSS-keplerianParameters
                                         GANSS-KeplerianParametersAlm,
    . . .
}
GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF GANSS-SatelliteClockModelItem
GANSS-Common-Data ::= SEQUENCE {
    ganss-Ionospheric-Model
                                         GANSS-Ionospheric-Model
                                                                                                                       OPTIONAL,
                                         GANSS-RX-Pos
    ganss-Rx-Pos
                                                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Common-Data-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
GANSS-Common-Data-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-CommonDataInfoReg ::= SEQUENCE {
    ionospheric-Model
                                         BOOLEAN
                                                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-CommonDataInfoReq-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL.
    . . .
GANSS-CommonDataInfoReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Data-Bit-Assistance ::= SEQUENCE {
    ganssTod
                                         INTEGER (0..59,...),
    dataBitAssistancelist
                                         GANSS-DataBitAssistanceList,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem
GANSS-DataBitAssistanceItem ::= SEQUENCE {
    satId
                                     INTEGER(0..63),
    dataBitAssistanceSgnList
                                     GANSS-DataBitAssistanceSgnList,
                                     ProtocolExtensionContainer { { GANSS-DataBitAssistanceItem-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
```

```
}
GANSS-DataBitAssistanceItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-DataBitAssistanceSqnList ::= SEQUENCE (SIZE (1..maxSqnType)) OF GANSS-DataBitAssistanceSqnItem
GANSS-DataBitAssistanceSqnItem ::= SEQUENCE {
    ganss-SignalId
                     GANSS-Signal-ID,
    ganssDataBits
                            BIT STRING (SIZE (1..1024)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-DataBitAssistanceSgnItem-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
GANSS-DataBitAssistanceSqnItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Data-Bit-Assistance-RegItem ::= SEQUENCE {
    ganssTod
                                            INTEGER (0..86399),
    ganss-Data-Bit-Assistance-RegList
                                            GANSS-Data-Bit-Assistance-ReqList,
   iE-Extensions
                                            ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-RegItem-ExtIEs } } OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Data-Bit-Assistance-ReqList ::= SEQUENCE {
    dGANSS-Signal-ID
                                        BIT STRING (SIZE (8)),
    ganss-DataBitInterval
                                        INTEGER(0..15),
    ganss-SatelliteInfo
                                        SEQUENCE (SIZE (1..maxGANSSSat)) OF INTEGER(0..63)
                                                                                                                           OPTIONAL.
   iE-Extensions
                                        ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqList-ExtlEs } }
                                                                                                                           OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ReqList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-GenericDataInfoReqList ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-GenericDataInfoReqItem
GANSS-GenericDataInfoReqItem ::= SEQUENCE {
    ganss-Id
                                                 GANSS-ID
                                                                                                                           OPTIONAL.
    ganss-Navigation-Model-And-Time-Recovery
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Time-Model-GNSS-GNSS
                                                BIT STRING (SIZE (9))
                                                                                                                           OPTIONAL,
    ganss-UTC-Model
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Almanac
                                                BOOLEAN
                                                                                                                           OPTIONAL,
    ganss-Real-Time-Integrity
                                                BOOLEAN
                                                                                                                           OPTIONAL,
```

```
ganss-Data-Bit-Assistance-Reg
                                                 GANSS-Data-Bit-Assistance-RegItem
                                                                                                                             OPTIONAL,
    ie-Extensions
                                                 ProtocolExtensionContainer { { GANSS-GenericDataInfoRegItem-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
GANSS-GenericDataInfoRegItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Generic-Data ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-Generic-DataItem
GANSS-Generic-DataItem ::= SEQUENCE {
    ganss-Id
                                                 GANSS-ID
                                                                                                                             OPTIONAL,
                                                 DGANSSCorrections
    dganss-Correction
                                                                                                                             OPTIONAL,
    ganss-Navigation-Model-And-Time-Recovery
                                                 GANSS-Navigation-Model-And-Time-Recovery
                                                                                                                             OPTIONAL,
    ganss-Time-Model
                                                 GANSS-Time-Model
                                                                                                                             OPTIONAL,
    ganss-UTC-TIME
                                                 GANSS-UTC-Model
                                                                                                                             OPTIONAL,
    ganss-Almanac
                                                 GANSS-Almanac
                                                                                                                             OPTIONAL,
    ganss-Real-Time-Integrity
                                                 GANSS-Real-Time-Integrity
                                                                                                                             OPTIONAL,
    ganss-Data-Bit-Assistance
                                                 GANSS-Data-Bit-Assistance
                                                                                                                             OPTIONAL,
    ie-Extensions
                                                 ProtocolExtensionContainer { { GANSS-Generic-DataItem-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
GANSS-Generic-DataItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
}
GANSS-ID ::= INTEGER(0...7,...)
GANSS-Information ::= SEQUENCE {
    gANSS-CommonDataInfoReq
                                         GANSS-CommonDataInfoReq
                                                                                                                       OPTIONAL,
    gANSS-GenericDataInfoReqList
                                         GANSS-GenericDataInfoRegList
                                                                                                                       OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Information-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
GANSS-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Ionospheric-Model ::= SEQUENCE {
    alpha-zero-ionos
                                         BIT STRING (SIZE (12)),
    alpha-one-ionos
                                         BIT STRING (SIZE (12)),
    alpha-two-ionos
                                         BIT STRING (SIZE (12)),
    gANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags
                                                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Ionospheric-Model-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
```

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```
GANSS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-IonosphereRegionalStormFlags ::= SEQUENCE
    storm-flag-one
                                         BOOLEAN,
    storm-flag-two
                                         BOOLEAN,
    storm-flag-three
                                         BOOLEAN,
    storm-flag-four
                                         BOOLEAN,
    storm-flag-five
                                         BOOLEAN,
                                         ProtocolExtensionContainer { { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
    ie-Extensions
    . . .
GANSS-IonosphereRegionalStormFlags-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-KeplerianParametersAlm ::= SEQUENCE
    t-oa
                                         INTEGER(0..255),
                                         INTEGER(0..3),
    iod-a
    gANSS-SatelliteInformationKP
                                         GANSS-SatelliteInformationKP,
                                         ProtocolExtensionContainer { { GANSS-KeplerianParametersAlm-ExtIEs } }
    ie-Extensions
                                                                                                                         OPTIONAL,
    . . .
}
GANSS-KeplerianParametersAlm-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-KeplerianParametersOrb ::= SEQUENCE {
    toe-nav
                                         BIT STRING (SIZE (14)),
                                        BIT STRING (SIZE (32)),
    ganss-omega-nav
    delta-n-nav
                                        BIT STRING (SIZE (16)),
    m-zero-nav
                                        BIT STRING (SIZE (32)),
    omegadot-nav
                                        BIT STRING (SIZE (24)),
    ganss-e-nav
                                        BIT STRING (SIZE (32)),
    idot-nav
                                         BIT STRING (SIZE (14)),
    a-sqrt-nav
                                         BIT STRING (SIZE (32)),
    i-zero-nav
                                         BIT STRING (SIZE (32)),
    omega-zero-nav
                                         BIT STRING (SIZE (32)),
    c-rs-nav
                                         BIT STRING (SIZE (16)),
    c-is-nav
                                         BIT STRING (SIZE (16)),
    c-us-nav
                                         BIT STRING (SIZE (16)),
                                         BIT STRING (SIZE (16)),
    c-rc-nav
    c-ic-nav
                                         BIT STRING (SIZE (16)),
    c-uc-nav
                                         BIT STRING (SIZE (16)),
                                         ProtocolExtensionContainer { { GANSS-KeplerianParametersOrb-ExtIEs } }
    ie-Extensions
                                                                                                                         OPTIONAL,
```

• • •

```
}
GANSS-KeplerianParametersOrb-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Navigation-Model-And-Time-Recovery ::= SEQUENCE {
    ganss-Transmission-Time
                                GANSS-Transmission-Time,
    non-broadcastIndication
                                 ENUMERATED{true}
                                                          OPTIONAL,
    ganssSatInfoNav
                                 GANSS-Sat-Info-Nav,
                                 ProtocolExtensionContainer { { GANSS-Navigation-Model-And-Time-Recovery-ExtlEs } } OPTIONAL,
    ie-Extensions
    . . .
}
GANSS-Navigation-Model-And-Time-Recovery-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Orbit-Model ::= CHOICE {
    qANSS-keplerianParameters
                                         GANSS-KeplerianParametersOrb,
    . . .
}
GANSS-Real-Time-Integrity ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-RealTimeInformationItem
GANSS-RealTimeInformationItem ::= SEQUENCE {
                                         INTEGER(0..63),
    bad-ganss-satId
    bad-ganss-signalId
                                         BIT STRING(SIZE(8))
                                                                                                                        OPTIONAL.
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-RealTimeInformationItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
GANSS-RealTimeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-RX-Pos ::= SEQUENCE {
                                         ENUMERATED { north, south },
    latitudeSign
    degreesOfLatitude
                                         INTEGER(0..2147483647),
    degreesOfLongitude
                                         INTEGER(-2147483648..2147483647),
    directionOfAltitude
                                         ENUMERATED { height, depth },
    altitude
                                         INTEGER(0..32767),
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
    . . .
```

```
GANSS-RX-Pos-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SatelliteClockModelItem ::= SEQUENCE {
    t-oc
                                        BIT STRING (SIZE (14)),
    a-i2
                                        BIT STRING (SIZE (12)),
    a-i1
                                        BIT STRING (SIZE (18)),
    a-i0
                                        BIT STRING (SIZE (28)),
    t-qd
                                        BIT STRING (SIZE (10))
                                                                                                                      OPTIONAL,
    model-id
                                        INTEGER(0..1,...)
                                                                                                                      OPTIONAL,
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-SatelliteClockModelItem-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
GANSS-SatelliteClockModelItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-SatelliteInformationKP ::= SEQUENCE (SIZE (1..maxGANSSSatAlmanac)) OF GANSS-SatelliteInformationKPItem
GANSS-SatelliteInformationKPItem ::= SEOUENCE {
    satId
                                        INTEGER(0..63),
    ganss-e-alm
                                        BIT STRING (SIZE (11)),
    qanss-delta-I-alm
                                        BIT STRING (SIZE (11)),
    ganss-omegadot-alm
                                        BIT STRING (SIZE (11)),
    ganss-svhealth-alm
                                        BIT STRING (SIZE (4)),
    ganss-delta-a-sgrt-alm
                                        BIT STRING (SIZE (17)),
    ganss-omegazero-alm
                                        BIT STRING (SIZE (16)),
    ganss-m-zero-alm
                                        BIT STRING (SIZE (16)),
    ganss-omega-alm
                                        BIT STRING (SIZE (16)),
    ganss-af-zero-alm
                                        BIT STRING (SIZE (14)),
    ganss-af-one-alm
                                        BIT STRING (SIZE (11)),
    ie-Extensions
                                        ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
    . . .
GANSS-SatelliteInformationKPItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Sat-Info-Nav ::= SEQUENCE (SIZE(1..maxGANSSSat)) OF SEQUENCE {
    satId
                                INTEGER(0..63),
    svHealth
                                BIT STRING (SIZE(5)),
    iod
                                BIT STRING (SIZE(10)),
    qanssClockModel
                                GANSS-Clock-Model,
    ganssOrbitModel
                                GANSS-Orbit-Model,
```

GANSS-UTC-Model ::= SEQUENCE {

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```
ProtocolExtensionContainer { { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL,
    ie-Extensions
    . . .
}
GANSS-Sat-Info-Nav-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Signal-ID ::= INTEGER(0..7,...)
GANSS-StatusHealth ::= ENUMERATED {
  udre-scale-1dot0,
  udre-scale-0dot75,
  udre-scale-0dot5,
  udre-scale-0dot3,
  udre-scale-0dot2,
  udre-scale-0dot1,
  no-data.
   invalid-data
}
GANSS-Time-Model ::= SEQUENCE {
    ganss-time-model-Ref-Time
                                                 INTEGER(0..37799),
    ganss-t-a0
                                         INTEGER(-2147483648.. 2147483647),
    ganss-t-a1
                                         INTEGER(-8388608.. 8388607)
                                                                                                                        OPTIONAL,
    ganss-t-a2
                                         INTEGER(-64..63)
                                                                                                                        OPTIONAL,
    qnss-to-id
                                         ENUMERATED {gps, ... },
                                         INTEGER(0..8191)
                                                                                                                        OPTIONAL,
    ganss-wk-number
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Time-Model-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
GANSS-Time-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Transmission-Time ::= SEQUENCE {
    ganssDay
                                 INTEGER(0..8191)
                                                                                                                        OPTIONAL,
    ganssTod
                                 INTEGER(0..86399),
    ie-Extensions
                                 ProtocolExtensionContainer { { GANSS-Transmission-Time-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
}
GANSS-Transmission-Time-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
BIT STRING (SIZE (24)),
    a-one-utc
    a-zero-utc
                                         BIT STRING (SIZE (32)),
    t-ot-utc
                                         BIT STRING (SIZE (8)),
    w-n-t-utc
                                         BIT STRING (SIZE (8)),
    delta-t-ls-utc
                                         BIT STRING (SIZE (8)),
    w-n-lsf-utc
                                         BIT STRING (SIZE (8)),
    dn-utc
                                         BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                                         BIT STRING (SIZE (8)),
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-UTC-Model-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
}
GANSS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GapLength
                        ::= INTEGER (1..14)
-- Unit slot
GapDuration
                        ::= INTEGER (1..144,...)
-- Unit frame
GenericTrafficCategory ::= BIT STRING (SIZE (8))
GPS-Almanac ::= SEQUENCE {
    wn<sub>a</sub>-alm
                         BIT STRING (SIZE (8)),
   sat-info-almanac
                         SAT-Info-Almanac,
    sVGlobalHealth-alm BIT STRING (SIZE (364)) OPTIONAL,
    ie-Extensions
                          ProtocolExtensionContainer { { GPS-Almanac-ExtIEs} }
                                                                                       OPTIONAL.
   . . .
GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                       CRITICALITY ignore
                                                                                                              PRESENCE optional },
    { ID id-SAT-Info-Almanac-ExtItem
                                                                  EXTENSION SAT-Info-Almanac-ExtList
    . . .
GPS-Ionospheric-Model ::= SEQUENCE
   alpha-zero-ionos
                         BIT STRING (SIZE (8)),
   alpha-one-ionos
                         BIT STRING (SIZE (8)),
   alpha-two-ionos
                         BIT STRING (SIZE (8)),
   alpha-three-ionos
                         BIT STRING (SIZE (8)),
   beta-zero-ionos
                         BIT STRING (SIZE (8)),
   beta-one-ionos
                          BIT STRING (SIZE (8)),
   beta-two-ionos
                          BIT STRING (SIZE (8)),
   beta-three-ionos
                         BIT STRING (SIZE (8)),
   ie-Extensions
                          ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
                                                                                               OPTIONAL,
   . . .
```

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```
}
GPS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Information ::= SEQUENCE (SIZE (0..maxNoGPSItems)) OF GPS-Information-Item
-- This IE shall be present if the Information Type Item IE indicates "GPS Information"
GPS-Information-Item ::= ENUMERATED {
   gps-navigation-model-and-time-recovery,
   qps-ionospheric-model,
  qps-utc-model,
  gps-almanac,
  qps-rt-integrity,
   . . .
}
GPS-RealTime-Integrity ::= CHOICE {
    bad-satellites
                                GPSBadSat-Info-RealTime-Integrity,
    no-bad-satellites
                                NULL
}
GPSBadSat-Info-RealTime-Integrity ::= SEQUENCE {
    sat-info
                                    SATInfo-RealTime-Integrity,
    ie-Extensions
                                    ProtocolExtensionContainer { { GPSBadSat-Info-RealTime-Integrity-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
GPSBadSat-Info-RealTime-Integrity-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item
GPS-NavandRecovery-Item ::= SEQUENCE {
 tx-tow-nav
                                   INTEGER (0..1048575),
 sat-id-nav
                                   SAT-ID,
 tlm-message-nav
                                  BIT STRING (SIZE (14)),
  tlm-revd-c-nav
                                  BIT STRING (SIZE (2)),
 ho-word-nav
                                  BIT STRING (SIZE (22)),
 w-n-nav
                                  BIT STRING (SIZE (10)),
  ca-or-p-on-12-nav
                                  BIT STRING (SIZE (2)),
 user-range-accuracy-index-nav
                                  BIT STRING (SIZE (4)),
  sv-health-nav
                                   BIT STRING (SIZE (6)),
 iodc-nav
                                   BIT STRING (SIZE (10)),
 12-p-dataflag-nav
                                  BIT STRING (SIZE (1)),
  sf1-reserved-nav
                                  BIT STRING (SIZE (87)),
```

}

```
t-qd-nav
                                   BIT STRING (SIZE (8)),
  t-oc-nav
                                   BIT STRING (SIZE (16)),
  a-f-2-nav
                                   BIT STRING (SIZE (8)),
 a-f-1-nav
                                   BIT STRING (SIZE (16)),
  a-f-zero-nav
                                   BIT STRING (SIZE (22)),
 c-rs-nav
                                   BIT STRING (SIZE (16)),
 delta-n-nav
                                   BIT STRING (SIZE (16)),
 m-zero-nav
                                   BIT STRING (SIZE (32)),
 c-uc-nav
                                   BIT STRING (SIZE (16)),
  qps-e-nav
                                   BIT STRING (SIZE (32)),
  c-us-nav
                                   BIT STRING (SIZE (16)),
  a-sqrt-nav
                                   BIT STRING (SIZE (32)),
  t-oe-nav
                                   BIT STRING (SIZE (16)),
  fit-interval-flag-nav
                                   BIT STRING (SIZE (1)),
  aodo-nav
                                   BIT STRING (SIZE (5)),
 c-ic-nav
                                   BIT STRING (SIZE (16)),
  omega-zero-nav
                                   BIT STRING (SIZE (32)),
  c-is-nav
                                   BIT STRING (SIZE (16)),
 i-zero-nav
                                   BIT STRING (SIZE (32)),
 c-rc-nav
                                   BIT STRING (SIZE (16)),
 qps-omega-nav
                                   BIT STRING (SIZE (32)),
  omegadot-nav
                                   BIT STRING (SIZE (24)),
 idot-nav
                                   BIT STRING (SIZE (14)),
  spare-zero-fill
                                   BIT STRING (SIZE (20)),
 ie-Extensions
                                   ProtocolExtensionContainer { { GPS-NavandRecovery-Item-ExtIEs } }
                                                                                                                         OPTIONAL,
   . . .
GPS-NavandRecovery-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-RX-POS ::= SEQUENCE {
                            ENUMERATED {north, south},
    latitudeSign
    latitude
                            INTEGER (0..8388607),
    longitude
                            INTEGER (-8388608..8388607),
    directionOfAltitude
                            ENUMERATED {height, depth},
    altitude
                            INTEGER (0..32767),
                            ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
GPS-RX-POS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
   udre-scale-1dot0,
   udre-scale-0dot75,
   udre-scale-0dot5,
```

```
udre-scale-0dot3,
   udre-scale-0dot1,
   no-data.
   invalid-data
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
   a-one-utc BIT STRING (SIZE (24)),
  a-one-utcBITSTRING(SIZE(24)),a-zero-utcBITSTRING(SIZE(24)),t-ot-utcBITSTRING(SIZE(24)),delta-t-ls-utcBITSTRING(SIZE(8)),w-n-t-utcBITSTRING(SIZE(8)),w-n-lsf-utcBITSTRING(SIZE(8)),dn-utcBITSTRING(SIZE(8)),delta-t-lsf-utcBITSTRING(SIZE(8)),
   ie-Extensions
                           ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs } }
                                                                                             OPTIONAL,
   . . .
GPS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
__ _____
-- H
HARO-Info-for-E-DCH ::= ENUMERATED {
    rv0,
    rvtable
}
HARQ-MemoryPartitioning ::= CHOICE {
    implicit
                      HARQ-MemoryPartitioning-Implicit,
                      HARQ-MemoryPartitioning-Explicit,
    explicit
     . . .
    ļ
HARQ-MemoryPartitioning-Implicit := SEQUENCE {
    number-of-Processes
                              INTEGER (1..8,...,12|14|16),
    iE-Extensions
                                   ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Implicit-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
}
HARQ-MemoryPartitioning-Implicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HARQ-MemoryPartitioning-Explicit
                                       ::= SEQUENCE {
    hARQ-MemoryPartitioningList
                                            HARQ-MemoryPartitioningList,
    iE-Extensions
                                            ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Explicit-ExtIEs } }
                                                                                                                                      OPTIONAL,
```

```
. . .
}
HARQ-MemoryPartitioning-Explicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- The following IE may only be used in FDD, in MIMO dual stream transmission mode
    {ID id-HARO-MemoryPartitioningInfoExtForMIMO CRITICALITY ignore EXTENSION HARO-MemoryPartitioningInfoExtForMIMO PRESENCE optional},
    . . .
}
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQ-MemoryPartitioningItem
HARQ-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4 | 6 | 8)) OF HARQ-MemoryPartitioningItem
HARO-MemoryPartitioningItem ::= SEQUENCE {
    process-Memory-Size
                                        ENUMERATED
                                        hms800, hms1600, hms2400, hms3200, hms4000,
                                        hms4800, hms5600, hms6400, hms7200, hms8000,
                                        hms8800, hms9600, hms10400, hms11200, hms12000,
                                        hms12800, hms13600, hms14400, hms15200, hms16000,
                                        hms17600, hms19200, hms20800, hms22400, hms24000,
                                        hms25600, hms27200, hms28800, hms30400, hms32000,
                                        hms36000, hms40000, hms44000, hms48000, hms52000,
                                        hms56000, hms60000, hms64000, hms68000, hms72000,
                                        hms76000, hms80000, hms88000, hms96000, hms104000,
                                        hms112000, hms120000, hms128000, hms136000, hms144000,
                                        hms152000, hms160000, hms176000, hms192000, hms208000,
                                        hms224000, hms240000, hms256000, hms272000, hms288000,
                                        hms304000,...},
                                        ProtocolExtensionContainer { { HARO-MemoryPartitioningItem-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
HARQ-MemoryPartitioningItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
HARQ-Preamble-Mode ::= ENUMERATED {
   mode0,
   mode1
HARQ-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE (maxNrOfEDCHHARQProcesses2msEDCH) )
HARO-Preamble-Mode-Activation-Indicator ::=ENUMERATED
    hargPreambleModeActivated
}
HSDPA-Capability ::= ENUMERATED {hsdpa-capable, hsdpa-non-capable}
HS-DSCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHProvidedBitRate-Item
HS-DSCHProvidedBitRate-Item ::= SEQUENCE
                                        SchedulingPriorityIndicator,
    schedulingPriorityIndicator
```

```
hS-DSCHProvidedBitRateValue
                                         HS-DSCHProvidedBitRateValue,
    iE-Extensions
                                         ProtocolExtensionContainer { { HS-DSCHProvidedBitRate-Item-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
HS-DSCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCHProvidedBitRateValue ::= INTEGER(0..16777215,...,16777216..256000000)
-- except for 7.68Mcps TDD Unit bit/s, Range 0..2<sup>2</sup>24-1..2<sup>2</sup>24..256,000,000, Step 1 bit
-- 7.68Mcps TDD Unit 2bit/s, Range 0..2<sup>2</sup>4-1..2<sup>2</sup>4..256,000,000, Step 1
HS-DSCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-
DSCHProvidedBitRateValueInformation-For-CellPortion-Item
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEQUENCE{
    cellPortionID
                                     CellPortionID,
    hS-DSCHProvidedBitRateValue
                                     HS-DSCHProvidedBitRate,
    iE-Extensions
                                     ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
    . . .
HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-DSCHRequiredPower ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHRequiredPower-Item
HS-DSCHRequiredPower-Item ::= SEQUENCE {
    schedulingPriorityIndicator
                                             SchedulingPriorityIndicator,
    hS-DSCHRequiredPowerValue
                                             HS-DSCHRequiredPowerValue,
    hS-DSCHRequiredPowerPerUEInformation
                                             HS-DSCHRequiredPowerPerUEInformation
                                                                                                                           OPTIONAL,
                                             ProtocolExtensionContainer { { HS-DSCHRequiredPower-Item-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
HS-DSCHRequiredPower-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-DSCHRequiredPowerValue ::= INTEGER(0..1000)
-- Unit %, Range 0 ..1000, Step 0.1%
HS-DSCHRequiredPowerPerUEInformation ::= SEQUENCE (SIZE (1.. maxNrOfContextsOnUeList)) OF HS-DSCHRequiredPowerPerUEInformation-Item
HS-DSCHRequiredPowerPerUEInformation-Item ::= SEQUENCE {
    cRNC-CommunicationContextID
                                             CRNC-CommunicationContextID,
    hS-DSCHRequiredPowerPerUEWeight
                                             HS-DSCHRequiredPowerPerUEWeight
                                                                                   OPTIONAL,
    iE-Extensions
                                             ProtocolExtensionContainer { { HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
```

```
HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HS-DSCHRequiredPowerPerUEWeight ::= INTEGER(0..100)
-- Unit %, Range 0 ..100, Step 1%
HS-DSCHRequiredPowerValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-DSCHRequiredPowerValueInformation-
For-CellPortion-Item
HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item ::= SEQUENCE{
    cellPortionID
                                CellPortionID,
    hS-DSCHRequiredPowerValue HS-DSCHRequiredPower,
                                ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs } }
    iE-Extensions
                                                                                                                                         OPTIONAL,
    . . .
HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDPA-Associated-PICH-Information ::= CHOICE {
    hsdpa-PICH-Shared-with-PCH
                                                     HSDPA-PICH-Shared-with-PCH,
    hsdpa-PICH-notShared-with-PCH
                                                     HSDPA-PICH-notShared-with-PCH,
    . . .
}
HSDPA-PICH-Shared-with-PCH ::= SEQUENCE {
    hsdpa-PICH-SharedPCH-ID
                                                     CommonPhysicalChannelID,
    . . .
}
HSDPA-PICH-notShared-with-PCH ::= SEOUENCE {
    hSDPA-PICH-notShared-ID
                                                     CommonPhysicalChannelID,
    fdd-DL-Channelisation-CodeNumber
                                                     FDD-DL-ChannelisationCodeNumber,
    pich-Power
                                                     PICH-Power,
    pich-Mode
                                                     PICH-Mode,
    sttd-Indicator
                                                     STTD-Indicator,
    . . .
HSDSCH-Common-System-InformationFDD ::= SEQUENCE {
    hsdsch-Common-Information
                                                     HSDSCH-Common-Information
                                                                                                                            OPTIONAL.
    commonMACFlow-Specific-Information
                                                     CommonMACFlow-Specific-InfoList
                                                                                                                             OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Common-System-InformationFDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
HSDSCH-Common-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

HSDSCH-Common-System-Information-ResponseFDD ::= SEQUENCE { hsSCCH-Specific-Information-ResponseFDD HSSCCH-Specific-InformationRespListFDD OPTIONAL. hARO-MemoryPartitioning HARO-MemoryPartitioning OPTIONAL. commonMACFlow-Specific-Info-Response CommonMACFlow-Specific-InfoList-Response OPTIONAL. iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-System-Information-ResponseFDD-ExtIEs } } OPTIONAL, . . . HSDSCH-Common-System-Information-ResponseFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } HSDSCH-Common-Information ::= SEQUENCE { cCCH-PriorityOueue-Id PriorityOueue-Id, sRB1-PriorityOueue-Id PriorityOueue-Id, associatedCommon-MACFlow Common-MACFlow-ID, fACH-Measurement-Occasion-Cycle-Length-Coefficient FACH-Measurement-Occasion-Cycle-Length-Coefficient OPTIONAL, rACH-Measurement-Result RACH-Measurement-Result, bCCH-Specific-HSDSCH-RNTI-Information BCCH-Specific-HSDSCH-RNTI-Information, iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-Information-ExtIEs } } OPTIONAL. . . . HSDSCH-Common-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } HSDSCH-FDD-Information ::= SEQUENCE { hSDSCH-MACdFlows-Information HSDSCH-MACdFlows-Information, ueCapability-Info UE-Capability-Information, mAChs-Reordering-Buffer-Size-for-RLC-UM MAChsReorderingBufferSize-for-RLC-UM, cqiFeedback-CycleK CQI-Feedback-Cycle, cqiRepetitionFactor CQI-RepetitionFactor OPTIONAL, -- This IE shall be present if the CQI Feedback Cycle k is greater than 0 AckNack-RepetitionFactor, ackNackRepetitionFactor caiPowerOffset COI-Power-Offset, ackPowerOffset Ack-Power-Offset, nackPowerOffset Nack-Power-Offset, hsscch-PowerOffset HSSCCH-PowerOffset OPTIONAL, measurement-Power-Offset Measurement-Power-Offset OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } } OPTIONAL. . . . HSDSCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= ID id-HARO-Preamble-Mode CRITICALITY ignore EXTENSION HARO-Preamble-Mode PRESENCE optional } ID id-MIMO-ActivationIndicator CRITICALITY reject EXTENSION MIMO-ActivationIndicator PRESENCE optional } ID id-HSDSCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional } | ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore PRESENCE optional }, EXTENSION SixtyfourOAM-UsageAllowedIndicator . . .

HSDSCH-TDD-Information ::= SEQUENCE {

hSDSCH-MACdFlows-Information ueCapability-Info mAChs-Reordering-Buffer-Size-for-RLC-UM tDD-AckNack-Power-Offset iE-Extensions 	HSDSCH-MACdFlows-Information, UE-Capability-Information, MAChsReorderingBufferSize-for-RLC-UM, TDD-AckNack-Power-Offset, ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } } OPTIONAL,				
,					
HSDSCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EX { ID id-HSSICH-SIRTarget CRITICALITY Applicable to 1.28Mcps TDD only		SION UL-SIR		PRESENCE	optional}
{ ID id-HSSICH-TPC-StepSize CRITICALITY Applicable to 1.28Mcps TDD only	f ignore EXTEN	SION TDD-TP	C-UplinkStepSize-LCR	PRESENCE	optional}
{ ID id-tSN-Length CRITICALITY	{ ID id-tSN-Length CRITICALITY reject EXTENSION TSN-Length Applicable for 1.28Mcps TDD when using multiple frequencies			PRESENCE optional}  PRESENCE optional },	
}					
HSDSCH-Information-to-Modify ::= SEQUENCE {     hsDSCH-MACdFlow-Specific-Info-to-Modify     priorityQueuEnfotoModify     mAChs-Reordering-Buffer-Size-for-RLC-UM     cqiFeedback-CycleK     cqiRepetitionFactor     ackNackRepetitionFactor     cqiPowerOffset     ackPowerOffset     hsscch-PowerOffset     hsscch-PowerOffset     hsscch-PowerOffset     hSSCCHCodeChangeGrant     tDDAckNackPowerOffset     iE-Extensions     int				OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,	For FDD only For TDD only PTIONAL,
}					
HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOG { ID id-HARQ-Preamble-Mode { ID id-HSSICH-SIRTarget	COL-EXTENSION ::= { CRITICALITY ignore CRITICALITY ignore	EXTENSION EXTENSION	HARQ-Preamble-Mode UL-SIR	PRESENCE c PRESENCE c	
Applicable to 1.28Mcps TDD only { ID id-ueCapability-Info	CRITICALITY ignore	EXTENSION	UE-Capability-Information	PRESENCE C	ntionall
{ ID id-HSSICH-TPC-StepSize	CRITICALITY ignore	EXTENSION	TDD-TPC-UplinkStepSize-LCR	PRESENCE C	
Applicable to 1.28Mcps TDD only	entitemiti ignore	DATENSION	ibb ile optimotopothe len		peronary
{ ID id-HS-PDSCH-Code-Change-Grant Applicable to FDD only	CRITICALITY ignore	EXTENSION	HS-PDSCH-Code-Change-Grant	PRESENCE C	ptional}
{ ID id-MIMO-Mode-Indicator	CRITICALITY reject	EXTENSION	MIMO-Mode-Indicator	PRESENCE C	ptional }
${ m id}$ ID id-HSDSCH-MACdPDUSizeFormat	CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat			PRESENCE C	- ,
{    ID id-SixtyfourQAM-UsageAllowedIndicator	CRITICALITY ignore EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional},			E optional},	
}					

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

```
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID.
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                                      OPTIONAL,
    transportBearerReguestIndicator
                                         TransportBearerRequestIndicator,
    bindingID
                                         BindingID
                                                                                      OPTIONAL,
                                         TransportLayerAddress
                                                                                      OPTIONAL,
    transportLayerAddress
    iE-Extensions
                                         ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } }
                                                                                                                                  OPTIONAL,
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-Extles NBAP-PROTOCOL-EXTENSION ::= 4
    {ID id-TnlOos
                            CRITICALITY ignore
                                                     EXTENSION TnlOos
                                                                         PRESENCE optional },
    . . .
HSDSCH-MACdPDUSizeFormat ::= ENUMERATED {
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
}
HSDSCH-MACdPDU-SizeCapability ::= ENUMERATED
    indexedSizeCapable,
    flexibleSizeCapable
HSDSCH-Information-to-Modify-Unsynchronised ::= SEQUENCE
    hsDSCH-MACdFlow-Specific-Info-to-Modify
                                                     HSDSCH-MACdFlow-Specific-InfoList-to-Modify
                                                                                                                      OPTIONAL,
    priorityQueueInfotoModifyUnsynchronised
                                                     PriorityOueue-InfoList-to-Modify-Unsynchronised
                                                                                                                      OPTIONAL,
    cgiPowerOffset
                                                     COI-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                  -- For FDD only
    ackPowerOffset.
                                                     Ack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    hsscch-PowerOffset
                                                     HSSCCH-PowerOffset
                                                                                                                      OPTIONAL,
                                                                                                                                 -- For FDD only
    tDDAckNackPowerOffset
                                                                                                                      OPTIONAL, -- For TDD only
                                                     TDD-AckNack-Power-Offset
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs } }
    OPTIONAL,
    . . .
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
      ID id-HARO-Preamble-Mode
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                      HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
     ID id-HSSICH-SIRTarget
                                                 CRITICALITY ignore
                                                                          EXTENSION
                                                                                      UL-SIR
                                                                                                                      PRESENCE optional }
     -- Applicable to 1.28Mcps TDD only
     ID id-ueCapability-Info
                                                                                                                      PRESENCE optional}
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                      UE-Capability-Information
     ID id-HSSICH-TPC-StepSize
                                                 CRITICALITY ignore
                                                                         EXTENSION
                                                                                      TDD-TPC-UplinkStepSize-LCR
                                                                                                                      PRESENCE optional }
     -- Applicable to 1.28Mcps TDD only
    { ID id-MIMO-Mode-Indicator
                                                 CRITICALITY reject
                                                                         EXTENSION MIMO-Mode-Indicator
                                                                                                                      PRESENCE optional }
     ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore
                                                                         EXTENSION
                                                                                      SixtyfourQAM-UsageAllowedIndicator PRESENCE optional },
    . . .
}
HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                                                     OPTIONAL,
    hsSCCH-Specific-Information-ResponseFDD
                                                     HSSCCH-Specific-InformationRespListFDD
                                                                                                                                     OPTIONAL,
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hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                                                    OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ID id-HARO-Preamble-Mode-Activation-Indicator
                                                         CRITICALITY ignore EXTENSION
                                                                                         HARO-Preamble-Mode-Activation-Indicator
    PRESENCE
              optional}|
    { ID id-MIMO-N-M-Ratio
                                                         CRITICALITY ignore EXTENSION
                                                                                         MIMO-N-M-Ratio
                                                                                                                                    PRESENCE
optional}
      ID id-SixtyfourQAM-DL-UsageIndicator
                                                                                                                           PRESENCE optional }|
                                                         CRITICALITY ignore EXTENSION SixtyfourQAM-DL-UsageIndicator
    { ID id-HSDSCH-TBSizeTableIndicator
                                                         CRITICALITY ignore EXTENSION HSDSCH-TBSizeTableIndicator
                                                                                                                           PRESENCE optional },
    . . .
HSDSCH-Paging-System-InformationFDD ::= SEQUENCE
    paging-MACFlow-Specific-Information
                                                     Paging-MACFlow-Specific-Information,
    hSSCCH-Power
                                                     DL-Power,
    hSPDSCH-Power
                                                     DL-Power,
                                                    Number-of-PCCH-transmission,
    number-of-PCCH-transmission
    transport-Block-Size-List
                                                    Transport-Block-Size-List,
                                                     ProtocolExtensionContainer { { HSDSCH-Paging-System-InformationFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
HSDSCH-Paging-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-Paging-System-Information-ResponseFDD ::= SEQUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF HSDSCH-Paging-System-Information-ResponseList
HSDSCH-Paging-System-Information-ResponseList ::= SEQUENCE {
    pagingMACFlow-ID
                                                     Paging-MACFlow-ID,
    bindingID
                                                     BindingID
                                                                                                 OPTIONAL,
    transportLayerAddress
                                                    TransportLayerAddress
                                                                                                 OPTIONAL.
    hSPDSCH-Code-Index
                                                    HSPDSCH-Code-Index,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-Paging-System-Information-ResponseList-ExtIEs } }
    OPTIONAL,
    . . .
HSDSCH-Paging-System-Information-ResponseList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-TDD-Information-Response ::= SEQUENCE {
   hsDSCH-MACdFlow-Specific-InformationResp
                                                     HSDSCH-MACdFlow-Specific-InformationResp
                                                                                                 OPTIONAL.
                                                                                                 OPTIONAL, -- Not Applicable to 1.28Mcps TDD or
    hsSCCH-Specific-Information-ResponseTDD
                                                     HSSCCH-Specific-InformationRespListTDD
7.68Mcps TDD
    hsSCCH-Specific-Information-ResponseTDDLCR
                                                     HSSCCH-Specific-InformationRespListTDDLCR OPTIONAL, -- Not Applicable to 3.84Mcps TDD or
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7.68Mcps TDD, This HSSCCH Specific Information is for the first Frequency repetition, HSSCCH Specific Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR

hARQ-MemoryPartitioning HARQ-MemoryPartitioning OPTIONAL, -- This HARQ Memory Partitioning Information is for the first Frequency repetition, HARO Memory Partitioning Information for Frequency repetitions 2 and on, should be defined in MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } } OPTIONAL. . . . } HSDSCH-TDD-Information-Response-Extles NBAP-PROTOCOL-EXTENSION ::= { {ID id-hsSCCH-Specific-Information-ResponseTDD768 CRITICALITY ignore EXTENSION HSSCCH-Specific-InformationRespListTDD768 PRESENCE optional } | { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional } -- Applicable to 1.28Mcps TDD when using multiple frequencies , This is the UARFCN for the first Frequency repetition { ID id-multipleFreg-HSPDSCH-InformationList-ResponseTDDLCR CRITICALITY ignore EXTENSION MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR PRESENCE optional } | -- Applicable to 1.28Mcps TDD when using multiple frequencies , This MultipleFreg-HSPDSCH-InformationList-ResponseTDDLCR is the HS-SCCH and HARO Memory Partitioning information for the 2nd and beyond HS-PDSCH frequencies. { ID id-multicarrier-number CRITICALITY ignore EXTENSION Multicarrier-Number PRESENCE optional }, -- Applicable for 1.28Mcps TDD when using multiple frequencies . . . HSDSCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InformationResp-Item HSDSCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE { hsDSCHMacdFlow-Id HSDSCH-MACdFlow-ID, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, hSDSCH-Initial-Capacity-Allocation HSDSCH-Initial-Capacity-Allocation OPTIONAL, ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } } iE-Extensions OPTIONAL, . . . HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { HSDSCH-MACdFlows-Information ::= SEQUENCE { hSDSCH-MACdFlow-Specific-Info HSDSCH-MACdFlow-Specific-InfoList, priorityOueue-Info PriorityOueue-InfoList, iE-Extensions ProtocolExtensionContainer { { HSDSCH-MACdFlows-Information-ExtIEs } } OPTIONAL, . . . HSDSCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE { hsDSCH-MACdFlow-ID HSDSCH-MACdFlow-ID,

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allocationRetentionPriority
                                        AllocationRetentionPriority,
    bindingID
                                        BindingID
                                                                     OPTIONAL.
    transportLayerAddress
                                        TransportLayerAddress
                                                                     OPTIONAL.
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlQos
                           CRITICALITY ignore
                                                     EXTENSION TnlQos
                                                                         PRESENCE optional },
    . . .
HSDSCH-MACdFlows-to-Delete ::= SEOUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlows-to-Delete-Item
HSDSCH-MACdFlows-to-Delete-Item ::= SEQUENCE {
   hsDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
HSDSCH-MACdFlows-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-TBSizeTableIndicator ::= ENUMERATED {
    octet-aligned
}
HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
HSDSCH-Initial-Capacity-Allocation::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF HSDSCH-Initial-Capacity-AllocationItem
HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    maximum-MACdPDU-Size
                                    MACdPDU-Size,
                                    HSDSCH-InitialWindowSize,
    hSDSCH-InitialWindowSize
                                    ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY ignore
                                                                     EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
    . . .
HSDSCH-InitialWindowSize
                                    ::= INTEGER (1..255)
-- Number of MAC-d PDUs.
HSSCCH-Specific-InformationRespListFDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Codes
HSSCCH-Codes ::= SEQUENCE {
    codeNumber
                                                     INTEGER (0..127),
```

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ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
HSSCCH-Specific-InformationRespItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSSCCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD
HSSCCH-Specific-InformationRespItemTDD ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    hSSICH-Info
                                                     HSSICH-Info,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs } }
    OPTIONAL,
    . . .
HSSCCH-Specific-InformationRespItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-Specific-InformationRespListTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDDLCR
HSSCCH-Specific-InformationRespItemTDDLCR ::= SEQUENCE {
    timeslotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
    first-TDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                             TDD-ChannelisationCode,
    hSSICH-InfoLCR
                                                 HSSICH-InfoLCR,
    iE-Extensions
                                                 ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } }
    OPTIONAL,
    . . .
HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-UARFCNforNt
                            CRITICALITY reject
                                                                             PRESENCE optional },
                                                     EXTENSION UARFCN
    -- Applicable for 1.28Mcps TDD when using multiple frequencies. this IE indicates the frequency which is actually used by the HS-SCCH
    . . .
HSSCCH-Specific-InformationRespListTDD768 ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD768
HSSCCH-Specific-InformationRespItemTDD768 ::= SEOUENCE {
    timeslot
                                                     TimeSlot,
                                                     MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    hSSICH-Info768
                                                     HSSICH-Info768,
                                                     ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD768-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
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HSSCCH-Specific-InformationRespItemTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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. . .
}
HSSICH-Info ::= SEQUENCE {
    hsSICH-ID
                                                      HS-SICH-ID,
    timeslot
                                                      TimeSlot,
    midambleShiftAndBurstType
                                                      MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                      TDD-ChannelisationCode,
    iE-Extensions
                                                      ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
                                                                                                                    OPTIONAL,
    . . .
}
HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID
                                                      HS-SICH-ID,
    timeslotLCR
                                                      TimeSlotLCR,
    midambleShiftLCR
                                                      MidambleShiftLCR,
    tDD-ChannelisationCode
                                                 TDD-ChannelisationCode,
                                                      ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
HSSICH-Info-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID
                                                          CRITICALITY ignore EXTENSION Extended-HS-SICH-ID PRESENCE optional }
    -- used if the HS-SICH identity has a value larger than 31
    . . .
}
HSSICH-Info768 ::= SEQUENCE {
    hsSICH-ID
                                                      HS-SICH-ID,
    timeslot
                                                      TimeSlot,
    midambleShiftAndBurstType768
                                                      MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                      TDD-ChannelisationCode768,
    iE-Extensions
                                                      ProtocolExtensionContainer { { HSSICH-Info-768-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
HSSICH-Info-768-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
HS-SICH-Reception-Quality-Value ::= SEQUENCE
    failed-HS-SICH
                                 HS-SICH-failed,
    missed-HS-SICH
                                 HS-SICH-missed,
    total-HS-SICH
                                 HS-SICH-total,
    iE-Extensions
                                 ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs } } OPTIONAL,
. . .
}
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HS-SICH-Reception-Ouality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Additional-failed-HS-SICH
                                            CRITICALITY reject
                                                                     EXTENSION HS-SICH-failed
                                                                                                      PRESENCE
                                                                                                                 optional }|
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 failed HS-SICH
    {ID id-Additional-missed-HS-SICH
                                            CRITICALITY reject
                                                                     EXTENSION HS-SICH-missed
                                                                                                      PRESENCE optional } |
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 missed HS-SICH
    {ID id-Additional-total-HS-SICH
                                            CRITICALITY reject
                                                                                                     PRESENCE optional },
                                                                     EXTENSION HS-SICH-total
    -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 total HS-SICH
    . . .
HS-SICH-failed ::= INTEGER (0..20)
HS-SICH-missed ::= INTEGER (0...20)
HS-SICH-total ::= INTEGER (0..20)
HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]
HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
HSDSCH-RNTI ::= INTEGER (0..65535)
HS-PDSCH-FDD-Code-Information ::= SEQUENCE {
    number-of-HS-PDSCH-codes
                                                    INTEGER (0..maxHS-PDSCHCodeNrComp-1),
    hS-PDSCH-Start-code-number
                                                HS-PDSCH-Start-code-number
                                                                                 OPTIONAL,
-- Only included when number of HS-DSCH codes > 0
                                ProtocolExtensionContainer { { HS-PDSCH-FDD-Code-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
HS-PDSCH-FDD-Code-Information-Extles NBAP-PROTOCOL-EXTENSION ::=
    . . .
HS-PDSCH-Start-code-number ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
HS-SCCH-ID ::= INTEGER (0..31)
HS-SICH-ID ::= INTEGER (0..31)
HS-SCCH-FDD-Code-Information::= CHOICE {
                            HS-SCCH-FDD-Code-List,
    replace
    remove
                            NULL,
    . . .
HS-SCCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-FDD-Code-Information-Item
HS-SCCH-FDD-Code-Information-Item ::= INTEGER (0..maxHS-SCCHCodeNrComp-1)
HSSCCH-CodeChangeIndicator ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
```

```
HSSCCH-Code-Change-Grant
                           ::= ENUMERATED {
    changeGranted
HS-PDSCH-Code-Change-Indicator ::= ENUMERATED {
    hsPDSCHCodeChangeNeeded
HS-PDSCH-Code-Change-Grant ::= ENUMERATED {
    changeGranted
}
HSDSCH-Configured-Indicator::= ENUMERATED {
    configured-HS-DSCH,
    no-configured-HS-DSCH
}
HS-DSCH-Serving-Cell-Change-Info ::= SEQUENCE {
    hspdsch-RL-ID
                                     RL-ID,
    hSDSCH-FDD-Information
                                    HSDSCH-FDD-Information OPTIONAL,
    hsdsch-RNTI
                                    HSDSCH-RNTI,
                                    ProtocolExtensionContainer { { HS-DSCH-Serving-Cell-Change-Info-ExtIEs } }
    iE-Extensions
                                                                                                                      OPTIONAL,
    . . .
HS-DSCH-Serving-Cell-Change-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information
                                                                                              EXTENSION ContinuousPacketConnectivityHS-SCCH-less-
                                                                     CRITICALITY reject
Information
                    PRESENCE optional },
    . . .
3
HS-DSCH-Serving-Cell-Change-Info-Response::= SEQUENCE
                                    HS-DSCH-serving-cell-choice,
    hS-DSCH-serving-cell-choice
    iE-Extensions
                                     ProtocolExtensionContainer { { HS-DSCH-serving-cell-informationResponse-ExtIEs } } OPTIONAL,
    . . .
HS-DSCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCH-serving-cell-choice ::= CHOICE {
    hS-serving-cell-change-successful
                                             HS-serving-cell-change-successful,
    hS-serving-cell-change-unsuccessful
                                             HS-serving-cell-change-unsuccessful,
    . . .
}
HS-serving-cell-change-successful ::= SEQUENCE
    hSDSCH-FDD-Information-Response
                                         HSDSCH-FDD-Information-Response,
    iE-Extensions
                                         ProtocolExtensionContainer { { HS-serving-cell-change-successful-ExtIEs } } OPTIONAL,
    . . .
```

```
HS-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response
                                                                             CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-
less-Information-Response
                                    PRESENCE optional },
    . . .
}
HS-serving-cell-change-unsuccessful ::= SEQUENCE {
                                     Cause,
    cause
                                     ProtocolExtensionContainer { { HS-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HS-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator
                                                     HSSCCH-CodeChangeIndicator
                                                                                                  OPTIONAL,
    cqiFeedback-CycleK
                                                     CQI-Feedback-Cycle
                                                                                                  OPTIONAL,
    cgiRepetitionFactor
                                                     CQI-RepetitionFactor
                                                                                                  OPTIONAL,
                                                     AckNack-RepetitionFactor
    ackNackRepetitionFactor
                                                                                                  OPTIONAL,
                                                     COI-Power-Offset
    cgiPowerOffset
                                                                                                  OPTIONAL.
                                                     Ack-Power-Offset
    ackPowerOffset
                                                                                                  OPTIONAL,
    nackPowerOffset
                                                     Nack-Power-Offset
                                                                                                  OPTIONAL,
                                                     ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
HSDSCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    {ID id-HS-PDSCH-Code-Change-Indicator
                                                 CRITICALITY ignore
                                                                          EXTENSION
                                                                                    HS-PDSCH-Code-Change-Indicator PRESENCE optional },
    . . .
}
HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator
                                                     HSSCCH-CodeChangeIndicator
                                                                                                  OPTIONAL.
    tDDAckNackPowerOffset
                                                     TDD-AckNack-Power-Offset
                                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }
                                                                                                                                  OPTIONAL,
    . . .
}
HSDSCH-TDD-Update-Information-Extles NBAP-PROTOCOL-EXTENSION ::=
    . . .
HSPDSCH-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
-- index of first HS-PDSCH code
HSPDSCH-First-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of first HS-PDSCH code
HSPDSCH-Second-Code-Index ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)
    -- index of second HS-PDSCH code
```

HSPDSCH-Second-Code-Support ::= BOOLEAN -- true: applied, false: not applied -- I IB-OC-ID ::= INTEGER (1..16) IB-SG-DATA ::= BIT STRING -- Contains SIB data fixed" or "SIB data variable" in segment as encoded in ref.[18]. IB-SG-POS ::= INTEGER (0..4094) -- Only even positions allowed IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096} IB-Type ::= ENUMERATED { mΙΒ, sB1, sB2, sIB1, sIB2, sIB3, sIB4, sIB5, sIB6, sIB7, not-Used-sIB8, not-Used-sIB9, not-Used-sIB10, sIB11, sIB12, sIB13, sIB13dot1, sIB13dot2, sIB13dot3, sIB13dot4, sIB14, sIB15, sIB15dot1, sIB15dot2, sIB15dot3, sIB16, ..., sIB17, sIB15dot4, sIB18, sIB15dot5, sIB5bis, sIB11bis, sIB15bis, sIB15dot1bis, sIB15dot2bis,

```
sIB15dot3bis,
    sIB15dot6,
    sIB15dot7.
    sIB15dot8
Inactivity-Threshold-for-UE-DRX-Cycle ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512}
-- Unit subframe
Inactivity-Threshold-for-UE-DTX-Cycle2 ::= ENUMERATED {v1, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
Inactivity-Threshold-for-UE-Grant-Monitoring ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            NULL,
    periodic
                            InformationReportCharacteristicsType-ReportPeriodicity,
    onModification
                            InformationReportCharacteristicsType-OnModification,
    . . .
}
InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    min
                        ReportPeriodicity-Scaledmin,
    hours
                        ReportPeriodicity-Scaledhour,
    . . .
InformationReportCharacteristicsType-OnModification ::= SEQUENCE
    information-thresholds
                                  InformationThresholds
                                                             OPTIONAL,
    ie-Extensions
                                  ProtocolExtensionContainer { { InformationReportCharacteristicsType-OnModification-ExtIEs } } OPTIONAL,
   . . .
InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InformationThresholds ::= CHOICE {
    dgps
                       DGPSThresholds,
    . . . ,
    dGANSSThreshold
                       DGANSSThreshold
}
InformationExchangeID ::= INTEGER (0..1048575)
InformationType ::= SEQUENCE {
    information-Type-Item
                                Information-Type-Item,
    gPSInformation
                                GPS-Information
                                                                                                  OPTIONAL,
```

```
-- The IE shall be present if the Information Type Item IE indicates "GPS Information".
                                 ProtocolExtensionContainer { { Information-Type-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
Information-Type-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
-- The following IE shall be present if the Information Type Item IE indicates "GANSS Information"
    { ID id-GANSS-Information
                                         CRITICALITY ignore EXTENSION GANSS-Information
                                                                                                   PRESENCE conditional } |
-- The following IE shall be present if the Information Type Item IE indicates "DGANSS Corrections"
    { ID id-DGANSS-Corrections-Req
                                         CRITICALITY ignore EXTENSION DGANSS-Corrections-Req
                                                                                                   PRESENCE conditional },
    . . .
}
Information-Type-Item ::= ENUMERATED
    qpsinformation,
    dqpscorrections,
    qpsrxpos,
    · · · ,
    qANSSInformation,
    dGANSSCorrections,
    gANSS-RX-Pos
}
Initial-DL-DPCH-TimingAdjustment-Allowed ::= ENUMERATED
    initial-DL-DPCH-TimingAdjustment-Allowed
}
InnerLoopDLPCStatus ::= ENUMERATED {
    active,
    inactive
}
IPDL-Indicator ::= ENUMERATED {
    active,
    inactive
3
IPDL-FDD-Parameters ::= SEQUENCE {
                                     ENUMERATED { sp5, sp7, sp10, sp15, sp20, sp30, sp40, sp50, ... },
    iP-SpacingFDD
    iP-Length
                                     ENUMERATED {len5, len10},
    seed
                                     INTEGER(0..63),
    burstModeParams
                                     BurstModeParams
                                                         OPTIONAL,
    iP-Offset
                                     INTEGER(0..9),
                                     ProtocolExtensionContainer { { IPDLFDDParameter-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
IPDLFDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
IPDL-TDD-Parameters ::= SEQUENCE {
    iP-SpacingTDD
                                   ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
   iP-Start
                                   INTEGER(0..4095),
   iP-Slot
                                   INTEGER(0..14),
   iP-PCCPCH
                                   ENUMERATED{switchOff-1-Frame,switchOff-2-Frames},
    burstModeParams
                                   BurstModeParams
                                                      OPTIONAL,
                           ProtocolExtensionContainer { { IPDLTDDParameter-ExtIEs } }
    iE-Extensions
                                                                                     OPTIONAL,
    . . .
IPDL-TDD-Parameters-LCR ::= SEQUENCE
                                   ENUMERATED { sp30, sp40, sp50, sp70, sp100, ... },
    iP-SpacingTDD
   iP-Start
                                   INTEGER(0..4095),
                                   ENUMERATED{first, second, both},
   iP-Sub
    burstModeParams
                                   BurstModeParams
                                                      OPTIONAL,
                           ProtocolExtensionContainer { { IPDLTDDParameterLCR-ExtIEs} }
   iE-Extensions
                                                                                         OPTIONAL,
    . . .
IPMulticastIndication ::= SEQUENCE {
    transportLayerAddress
                                   TransportLayerAddress,
   bindingID
                                   BindingID,
    cFNOffset
                                   INTEGER(0..255),
                           ProtocolExtensionContainer { { IPMulticastIndication-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
3
IPMulticastIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
٦
IPMulticastDataBearerIndication ::= BOOLEAN
-- true: IP Multicast used, false: IP Multicast not used
BurstModeParams ::= SEOUENCE {
   burstStart
                                       INTEGER(0..15),
    burstLength
                                       INTEGER(10..25),
   burstFreq
                                       INTEGER(1..16),
    . . .
}
IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
IPDLTDDParameterLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
-- J
```

```
-- K
-- T.
LimitedPowerIncrease ::= ENUMERATED {
   used,
   not-used
}
Local-Cell-ID ::= INTEGER (0..268435455)
LTGI-Presence ::= BOOLEAN
-- True = the Long Term Grant Indicator shall be used within E-DCH grants
LCRTDD-Uplink-Physical-Channel-Capability ::= SEQUENCE {
   maxTimeslotsPerSubFrame
                                 INTEGER(1..6),
   maxPhysChPerTimeslot
                                 ENUMERATED {one, two, ..., three, four},
                                 ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
}
LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
-- M
MAC-DTX-Cycle-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
MAC-DTX-Cycle-10ms ::= ENUMERATED {v5, v10, v20}
MAC-ehs-Reset-Timer ::= ENUMERATED {v1, v2, v3, v4,...}
MACdPDU-Size ::= INTEGER (1..5000,...)
   -- In case of E-DCH value 8 and values not multiple of 8 shall not be used
MAC-PDU-SizeExtended ::= INTEGER (1..1504,...,1505)
MAC-Inactivity-Threshold ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
   -- Unit subframe
MACdPDU-Size-Indexlist ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem
MACdPDU-Size-IndexItem ::= SEQUENCE {
   sID
                                 SID,
   macdPDU-Size
                                 MACdPDU-Size,
   iE-Extensions
                                 ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-ExtIEs } }
                                                                                                   OPTIONAL,
   . . .
```

```
}
MACdPDU-Size-IndexItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MACdPDU-Size-Indexlist-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify
MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
    sID
                                        SID.
   macdPDU-Size
                                        MACdPDU-Size,
                                        ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs } }
   iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
MACdPDU-Size-IndexItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MACesGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MACes-Maximum-Bitrate-LCR ::= INTEGER (0..25600000,...)
MACeReset-Indicator ::= ENUMERATED {mACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..25600000)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
-- Unit kBytes
MAC-hsWindowSize
                        ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,...}
-- For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,...)
MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)
Maximum-Number-of-Retransmissions-For-E-DCH ::= INTEGER (0..15)
Maximum-Target-ReceivedTotalWideBandPower-LCR ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [23]
MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
MaxNrOfUL-DPDCHs ::= INTEGER (1..6)
MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...,
    shift16
```

```
}
Max-Set-E-DPDCHs ::= ENUMERATED {
    vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,
    ...,
    v2xM2plus2xM4
-- Values related to [8]
Max-UE-DTX-Cycle ::= ENUMERATED {
    v5, v10, v20, v40, v64, v80, v128, v160,
    . . .
    }
MBMS-Capability ::= ENUMERATED{
   mbms-capable,
   mbms-non-capable
}
MeasurementFilterCoefficient ::= ENUMERATED {k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement
MeasurementID ::= INTEGER (0..1048575)
Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5
MeasurementRecoveryBehavior ::= NULL
MeasurementRecoveryReportingIndicator ::= NULL
MeasurementRecoverySupportIndicator ::= NULL
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        . . .
    }
MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MICH-CFN ::= INTEGER (0..4095)
MICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72,
    v144,
```

```
. . .
}
MidambleConfigurationLCR ::=
                                 ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleConfigurationBurstType1And3 ::=
                                             ENUMERATED {v4, v8, v16}
                                         ENUMERATED {v3, v6}
MidambleConfigurationBurstType2 ::=
MidambleShiftAndBurstType ::=
                                     CHOICE {
                                         SEQUENCE
    type1
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftLong,
            . . .
        },
    . . .
    },
    type2
                                         SEQUENCE
        midambleConfigurationBurstType2
                                             MidambleConfigurationBurstType2,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftShort,
            . . .
        },
        . . .
    },
    type3
                                         SEQUENCE
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE
            defaultMidamble
                                                 NULL,
                                                 MidambleShiftLong,
            ueSpecificMidamble
        . . .
        },
        . . .
    },
    . . .
}
MidambleShiftLong ::=
                                     INTEGER (0..15)
MidambleShiftShort ::=
                                     INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode
                                 MidambleAllocationMode,
    midambleShift
                                 MidambleShiftLong
                                                          OPTIONAL,
    -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".
    midambleConfigurationLCR
                                     MidambleConfigurationLCR,
                                 ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
    iE-Extensions
                                                                                                    OPTIONAL,
    . . .
```

```
MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble.
    commonMidamble,
    uESpecificMidamble,
    . . .
MidambleShiftLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MidambleShiftAndBurstType768 ::=
                                          CHOICE {
    type1
                                          SEQUENCE
        midambleConfigurationBurstType1And3
                                                  MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                              CHOICE
            defaultMidamble
                                                  NULL,
            commonMidamble
                                                  NULL,
            ueSpecificMidamble
                                                  MidambleShiftLong,
            . . .
        },
        . . .
    },
                                         SEOUENCE
    type2
        midambleConfigurationBurstType2-768
                                                  MidambleConfigurationBurstType2-768,
        midambleAllocationMode
                                              CHOICE
            defaultMidamble
                                                  NULL,
            commonMidamble
                                                  NULL,
            ueSpecificMidamble
                                                  MidambleShiftShort768,
            . . .
        },
        . . .
    },
                                         SEQUENCE {
    type3
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                         CHOICE {
            defaultMidamble
                                                  NULL,
            ueSpecificMidamble
                                                  MidambleShiftLong,
            . . .
        },
        . . .
    },
    . . .
}
MidambleConfigurationBurstType2-768 ::=
                                             ENUMERATED \{v4, v8\}
MidambleShiftShort768 ::=
                                         INTEGER (0..7)
MIMO-ActivationIndicator ::= NULL
MIMO-Capability ::= ENUMERATED {
    mimo-capable,
    mimo-non-capable
```

```
}
MIMO-Mode-Indicator ::= ENUMERATED {
    activate.
    deactivate
}
MIMO-N-M-Ratio ::= ENUMERATED {v1-2, v2-3, v3-4, v4-5, v5-6, v6-7, v7-8, v8-9, v9-10, v1-1,...}
MIMO-PilotConfiguration ::= CHOICE {
    primary-and-secondary-CPICH
                                             CommonPhysicalChannelID,
    normal-and-diversity-primary-CPICH
                                            NULL,
    . . .
}
MIMO-PilotConfigurationExtension ::= CHOICE
    primary-and-secondary-CPICH
                                             PrimaryAndSecondaryCPICHContainer,
    normal-and-diversity-primary-CPICH
                                            NormalAndDiversityPrimaryCPICHContainer,
    . . .
MIMO-PowerOffsetForS-CPICHCapability ::= ENUMERATED {
    s-CPICH-Power-Offset-Capable,
    s-CPICH-Power-Offset-Not-Capable
}
MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB
MinSpreadingFactor ::= ENUMERATED {
        v4,
        v8,
        v16,
        v32,
        v64,
        v128,
        v256,
        v512
-- TDD Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1, "512" means 2
Modification-Period ::= ENUMERATED { v1280, v2560, v5120, v10240,...}
ModifyPriorityQueue ::= CHOICE {
    addPriorityQueue
                                PriorityQueue-InfoItem-to-Add,
    modifyPriorityQueue
                                PriorityQueue-InfoItem-to-Modify,
    deletePriorityQueue
                                PriorityQueue-Id,
    . . .
}
Modulation ::= ENUMERATED {
    qPSK,
```

```
eightPSK,
    -- 8PSK denotes 16QAM for S-CCPCH
    . . .
}
MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    . . .
}
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}
MAChs-ResetIndicator ::= ENUMERATED{
    mAChs-NotReset
}
ModulationMBSFN ::= ENUMERATED {
    qPSK,
    sixteenQAM,
    . . .
}
MBSFN-CPICH-secondary-CCPCH-power-offset ::= INTEGER(-11..4,...)
-- Unit dB, Step 1 dB, Range -11..4 dB.
ModulationPO-MBSFN ::= CHOICE {
    qPSK
                        NULL,
                        MBSFN-CPICH-secondary-CCPCH-power-offset,
    sixteenQAM
    . . .
MBSFN-Only-Mode-Indicator ::= ENUMERATED {
    mBSFN-Only-Mode
}
MBSFN-Only-Mode-Capability ::= ENUMERATED {
    mBSFN-Only-Mode-capable,
    mBSFN-Only-Mode-non-capable
}
```

Multicarrier-Number ::= INTEGER (1..maxHSDPAFrequency)

MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR ::= SEQUENCE (SIZE (1.. maxHSDPAFrequency-1)) OF MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR

--Includes the 2nd through the max number of frequency repetitions.

```
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR ::= SEQUENCE{
    hsSCCH-Specific-Information-ResponseTDDLCR
                                                  HSSCCH-Specific-InformationRespListTDDLCR
                                                                                             OPTIONAL.
    hARO-MemoryPartitioning
                                                   HARO-MemoryPartitioning
                                                                                             OPTIONAL.
    UARFCN
                                                   UARFCN, -- This is the UARFCN for the second and beyond Frequency repetition.
    iE-Extensions
                                                   ProtocolExtensionContainer { { MultipleFreg-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }
       OPTIONAL,
    . . .
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
. . .
}
- -
  _____
   M
- -
  _____
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
NCyclesPerSFNperiod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    . . . .
    v16,
    v32,
    v64
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
        CHOICE {
                                                              NeighbouringFDDCellMeasurementInformation, -- FDD only
               neighbouringFDDCellMeasurementInformation
               neighbouringTDDCellMeasurementInformation
                                                              NeighbouringTDDCellMeasurementInformation,
               -- Applicable to 3.84Mcps TDD only
                ...,
               extension-neighbouringCellMeasurementInformation
                                                                  Extension-neighbouringCellMeasurementInformation
Extension-neighbouringCellMeasurementInformation
                                                  ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR
                                                          CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE
mandatory }|
              -- Applicable to 1.28Mcps TDD only
    { ID id-neighbouringTDDCellMeasurementInformation768
                                                          CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformation768 PRESENCE
mandatory }, -- Applicable to 7.68Mcps TDD only
    . . .
```

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```
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id
                                         UC-Id.
    UARFCN
                                         UARFCN,
    primaryScramblingCode
                                         PrimaryScramblingCode,
                                         ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id
                                         UC-Id,
    UARFCN
                                         UARFCN,
    cellParameterID
                                         CellParameterID,
    timeSlot
                                         TimeSlot
                                                                          OPTIONAL,
                                         MidambleShiftAndBurstType
    midambleShiftAndBurstType
                                                                          OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    . . .
NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE
    uC-Id
                                         UC-Id,
    UARFCN
                                         UARFCN,
    cellParameterID
                                         CellParameterID,
    timeSlotLCR
                                         TimeSlotLCR
                                                                  OPTIONAL,
    midambleShiftLCR
                                         MidambleShiftLCR
                                                                  OPTIONAL,
                                         ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NeighbouringTDDCellMeasurementInformation768 ::= SEQUENCE
    uC-Id
                                         UC-Id,
    UARFCN
                                         UARFCN,
                                         CellParameterID,
    cellParameterID
    timeSlot
                                         TimeSlot
                                                                          OPTIONAL,
    midambleShiftAndBurstType768
                                         MidambleShiftAndBurstType768
                                                                              OPTIONAL,
                                         ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformation768Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

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NeighbouringTDDCellMeasurementInformation768Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```
. . .
}
NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator
Notification-Indicator ::= INTEGER (0..65535)
NodeB-CommunicationContextID ::= INTEGER (0..1048575)
NormalAndDiversityPrimaryCPICHContainer ::= SEQUENCE {
   iE-Extensions ProtocolExtensionContainer { { NormalAndDiversityPrimaryCPICHContainer-ExtIEs} } OPTIONAL,
   . . .
}
NormalAndDiversityPrimaryCPICHContainer-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NotificationIndicatorLength ::= ENUMERATED {
   v2,
   v4,
   v8,
    . . .
NumberOfReportedCellPortions ::= INTEGER (1..maxNrOfCellPortionsPerCell,...)
Number-of-PCCH-transmission ::= INTEGER (1..5)
NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)
N-E-UCCH ::= INTEGER (1..12)
N-E-UCCHLCR ::= INTEGER (1..8)
Number-Of-Supported-Carriers ::= ENUMERATED {
   one-one-carrier,
   one-three-carrier,
   three-three-carrier,
   one-six-carrier,
   three-six-carrier,
   six-six-carrier,
    . . .
ļ
-- 0
```

```
__ D
PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8,
    . . .
}
Paging-MACFlow-ID ::= INTEGER (0..maxNrOfPagingMACFlow-1)
PayloadCRC-PresenceIndicator ::= ENUMERATED {
    cRC-Included,
    cRC-NotIncluded,
    . . .
}
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
PDSCH-ID ::= INTEGER (0..255)
PDSCH-ID768 ::= INTEGER (0..511)
PDSCHSet-ID ::= INTEGER (0..255)
PICH-Mode ::= ENUMERATED {
    v18,
    v36,
    v72,
    v144,
    . . .
PICH-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB
Paging-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MACFlows-to-DeleteFDD-Item
Paging-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
    paging-MACFlow-ID
                                                   Paging-MACFlow-ID,
                                                   ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteFDD-Item-ExtIEs } }
    iE-Extensions
   OPTIONAL,
    . . .
}
Paging-MACFlows-to-DeleteFDD-Item-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

}

```
Paging-MACFlow-Specific-Information ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MAC-Flow-Specific-Information-Item
Paging-MAC-Flow-Specific-Information-Item ::= SEQUENCE {
    paging-MACFlow-Id
                                                     Paging-MACFlow-ID,
    hSDPA-associated-PICH-Info
                                                     HSDPA-Associated-PICH-Information,
    bindingID
                                                     BindingID
                                                                                                  OPTIONAL,
                                                     TransportLayerAddress
    transportLayerAddress
                                                                                                  OPTIONAL.
                                                                                                  OPTIONAL,
    tnl-qos
                                                     TnlQos
    toAWS
                                                     TOAWS,
                                                     TOAWE.
    LOAWE
    paging-MACFlow-PriorityQueue-Information
                                                     Paging-MACFlow-PriorityQueue-Information
                                                                                                  OPTIONAL.
                                                     ProtocolExtensionContainer { { Paging-MAC-Flow-Specific-Information-Item-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Paging-MAC-Flow-Specific-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerRequestIndicator
                                                CRITICALITY iqnore EXTENSION TransportBearerRequestIndicator
                                                                                                                      PRESENCE optional },
    -- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
    . . .
}
Paging-MACFlow-PriorityQueue-Information ::= SEQUENCE (SIZE (1..maxNrOfpagingMACQueues)) OF Paging-MACFlow-PriorityQueue-Item
Paging-MACFlow-PriorityQueue-Item ::= SEQUENCE {
    priority-Oueue-Information-for-Enhanced-PCH
                                                     Priority-Oueue-Information-for-Enhanced-FACH-PCH,
       iE-Extensions
                                                         ProtocolExtensionContainer { { Paging-MACFlow-PriorityQueue-Item-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
Paging-MACFlow-PriorityQueue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PLCCHsequenceNumber ::= INTEGER (0..14)
PLCCHinformation ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    sequenceNumber
                                            PLCCHsequenceNumber,
    iE-Extensions
                                            ProtocolExtensionContainer { { PLCCHinformation-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
PLCCHinformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
```

```
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```

```
individual
}
PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range OdB .. +6dB, Step +0.25dB
PowerOffsetForSecondaryCPICHforMIMO ::= INTEGER (-6..0)
-- Unit dB, Range -6dB .. 0dB, Step +1dB
PowerRaiseLimit ::= INTEGER (0..10)
PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    . . .
}
PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
   one,
   two,
   five,
   ten,
   . . .
}
PrecodingWeightSetRestriction ::= ENUMERATED {
    preferred,
    not-preferred
}
PreambleSignatures ::= BIT STRING {
                                     signature15(0),
                                     signature14(1),
                                     signature13(2),
                                     signature12(3),
                                     signature11(4),
                                     signature10(5),
                                     signature9(6),
                                     signature8(7),
                                     signature7(8),
                                     signature6(9),
                                     signature5(10),
                                     signature4(11),
                                     signature3(12),
                                     signature2(13),
                                     signature1(14),
                                     signature0(15)
                                     } (SIZE (16))
```

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```
PreambleThreshold ::= INTEGER (0..72)
-- 0= -36.0dB, 1= -35.5dB, ..., 72= 0.0dB
PredictedSFNSFNDeviationLimit ::=INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
}
Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
}
PrimaryAndSecondaryCPICHContainer ::= SEQUENCE {
    power-Offset-For-Secondary-CPICH-for-MIMO
                                                    PowerOffsetForSecondaryCPICHforMIMO,
                                        ProtocolExtensionContainer { { PrimaryAndSecondaryCPICHContainer-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
PrimaryAndSecondaryCPICHContainer-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
Primary-CPICH-Usage-for-Channel-Estimation ::= ENUMERATED
  primary-CPICH-may-be-used,
  primary-CPICH-shall-not-be-used
PrimaryScramblingCode ::= INTEGER (0..511)
PriorityLevel
                           ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority
Priority-Oueue-Information-for-Enhanced-FACH-PCH ::= SEQUENCE {
    priorityQueue-Id
                                        PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    t1
                                        Τ1,
    mAC-ehs-Reset-Timer
                                        MAC-ehs-Reset-Timer,
    -- shall be ignored in case of Enhanced PCH
    discardTimer
                                        DiscardTimer
                                                                                 OPTIONAL.
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    maximum-MACcPDU-Size
                                        MAC-PDU-SizeExtended,
    iE-Extensions
                                        ProtocolExtensionContainer { { Priority-Queue-Information-for-Enhanced-FACH-PCH-ExtIEs } }
                                                                                                                                          OPTIONAL,
```

```
. . .
}
Priority-Queue-Information-for-Enhanced-FACH-PCH-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
3
PriorityQueue-Id ::= INTEGER (0..maxNrOfPriorityQueues-1)
PriorityQueue-InfoList ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem
PriorityQueue-InfoItem ::= SEQUENCE {
    priorityOueueId
                                         PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                         HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator,
    t.1
                                         Τ1,
    discardTimer
                                         DiscardTimer
                                                                      OPTIONAL,
    mAC-hsWindowSize
                                         MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                         MAChsGuaranteedBitRate
                                                                                                                       OPTIONAL,
                                         MACdPDU-Size-Indexlist,
    macdPDU-Size-Index
    rLC-Mode
                                         RLC-Mode,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
PriorityQueue-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-MaximumMACdPDU-SizeExtended
                                             CRITICALITY reject
                                                                                                                       PRESENCE optional },
                                                                      EXTENSION
                                                                                 MAC-PDU-SizeExtended
    . . .
}
PriorityQueue-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF ModifyPriorityQueue
PriorityQueue-InfoItem-to-Add ::= SEQUENCE {
    priorityQueueId
                                         PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                         HSDSCH-MACdFlow-ID,
                                         SchedulingPriorityIndicator,
    schedulingPriorityIndicator
    t1
                                         Τ1,
    discardTimer
                                         DiscardTimer
                                                                                                       OPTIONAL,
    mAC-hsWindowSize
                                         MAC-hsWindowSize,
    mAChsGuaranteedBitRate
                                         MAChsGuaranteedBitRate
                                                                                                       OPTIONAL,
                                         MACdPDU-Size-Indexlist,
    macdPDU-Size-Index
    rLC-Mode
                                         RLC-Mode,
    iE-Extensions
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Add-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MaximumMACdPDU-SizeExtended
                                             CRITICALITY reject
                                                                      EXTENSION
                                                                                MAC-PDU-SizeExtended
                                                                                                                       PRESENCE optional },
    . . .
}
PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityQueueId
                                         PriorityQueue-Id,
    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator
                                                                                                                       OPTIONAL,
```

```
t1
                                        T1
                                                                                                                      OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                      OPTIONAL.
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                                                      OPTIONAL.
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
    macdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-Indexlist-to-Modify
                                                                                                                      OPTIONAL,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs} } 
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-MaximumMACdPDU-SizeExtended
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 MAC-PDU-SizeExtended
                                                                                                                      PRESENCE optional },
    . . .
ι
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityOueue-InfoItem-to-Modify-Unsynchronised ::= SEOUENCE {
    priorityOueueId
                                         PriorityQueue-Id,
    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator
                                                                                                                                        OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                                        OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                                        OPTIONAL,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs} }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- Mapping of non-negative values according to [23]
PrimaryCCPCH-RSCP-Delta ::= INTEGER (-5..-1,...)
-- Mapping of negative values according to [23]
PropagationDelay ::= INTEGER (0..255)
-- Unit: chips, step size 3 chips
-- example: 0 = 0 chip, 1 = 3 chips
PRXdes-base ::= INTEGER (-112..-50)
-- Unit: dBm, step size 1
SCH-TimeSlot ::= INTEGER (0..6)
PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%
-- 0 is not applicable for E-DPCH
PUSCH-ID ::= INTEGER (0..255)
UE-Selected-MBMS-Service-Information ::= CHOICE {
    none
                                    NULL,
    selected-MBMS-Service
                                     Selected-MBMS-Service,
```

```
. . .
Selected-MBMS-Service ::= SEQUENCE {
   selected-MBMS-Service-List
                                        Selected-MBMS-Service-List,
   iE-Extensions
                                        ProtocolExtensionContainer { { Selected-MBMS-Service-ExtIEs } }
                                                                                                             OPTIONAL,
   . . .
Selected-MBMS-Service-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
Selected-MBMS-Service-List ::= SEOUENCE (SIZE (1.. maxMBMSServiceSelect)) OF Selected-MBMS-Service-Item
Selected-MBMS-Service-Item ::= SEQUENCE {
   selected-MBMS-Service-TimeSlot-Information-LCR
                                                      Selected-MBMS-Service-TimeSlot-Information-LCR
                                                                                                             OPTIONAL,
   mBMS-Service-TDM-Information
                                        MBMS-Service-TDM-Information
                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { { Selected-MBMS-Service-Item-ExtIEs } }
   iE-Extensions
                                                                                                             OPTIONAL,
   . . .
}
Selected-MBMS-Service-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
Selected-MBMS-Service-TimeSlot-Information-LCR ::= SEQUENCE (SIZE (1..7)) OF TimeSlotLCR
MBMS-Service-TDM-Information ::= SEQUENCE {
   transmission-Time-Interval
                                    ENUMERATED {v10, v20, v40, v80,...},
                         INTEGER (2..9),
   tDM-Rep
   tDM-Offset
                        INTEGER (0..8),
                         INTEGER (1..8),
   tDM-Length
                                        ProtocolExtensionContainer { { MBMS-Service-TDM-Information-ExtIEs } }
   iE-Extensions
                                                                                                             OPTIONAL,
   . . .
}
MBMS-Service-TDM-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
   . . .
}
PUSCHSet-ID ::= INTEGER (0..255)
-- O
OE-Selector ::= ENUMERATED {
   selected,
   non-selected
}
```

```
-- R
RACH-Measurement-Result ::= ENUMERATED {
    cpich-EcNo,
    cpich-RSCP,
   pathloss,
    . . .
}
RACH-SlotFormat ::= ENUMERATED
   v0,
    v1,
    v2.
    v3,
    . . .
RACH-SubChannelNumbers ::= BIT STRING {
                                       subCh11(0),
                                       subCh10(1),
                                       subCh9(2),
                                       subCh8(3),
                                       subCh7(4).
                                       subCh6(5),
                                       subCh5(6),
                                       subCh4(7),
                                       subCh3(8),
                                       subCh2(9),
                                       subCh1(10),
                                       subCh0(11)
                                       } (SIZE (12))
RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item
RL-Specific-DCH-Info-Item ::= SEQUENCE {
    dCH-id
                           DCH-ID,
    bindingID
                           BindingID
                                                                                              OPTIONAL,
    transportlayeraddress TransportLayerAddress
                                                                                              OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs } }
                                                                                              OPTIONAL,
    . . .
}
RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TransportBearerNotRequestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator PRESENCE optional }, --
FDD only
    . . .
}
RL-Specific-E-DCH-Info ::= SEQUENCE {
    rL-Specific-E-DCH-Information
                                       RL-Specific-E-DCH-Information,
    e-AGCH-PowerOffset
                                       E-AGCH-PowerOffset
                                                                                   OPTIONAL,
    e-RGCH-PowerOffset
                                       E-RGCH-PowerOffset
                                                                                  OPTIONAL,
    e-HICH-PowerOffset
                                       E-HICH-PowerOffset
                                                                                  OPTIONAL,
```

```
ProtocolExtensionContainer { { RL-Specific-E-DCH-Info-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-Specific-E-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
RL-Specific-E-DCH-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF RL-Specific-E-DCH-Information-Item
RL-Specific-E-DCH-Information-Item ::= SEQUENCE {
    e-DCH-MACdFlow-ID
                            E-DCH-MACdFlow-ID,
    bindingID
                            BindingID
                                                                         OPTIONAL.
    transportlayeraddress TransportLayerAddress
                                                                         OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-E-DCH-Information-Item-ExtIEs } } OPTIONAL,
    . . .
RL-Specific-E-DCH-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s
Reference-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [22]
Reference-ReceivedTotalWideBandPowerReporting::= ENUMERATED {
    reference-ReceivedTotalWideBandPower-Requested
}
Reference-ReceivedTotalWideBandPowerSupportIndicator::= ENUMERATED {
    indication-of-Reference-ReceivedTotalWideBandPower-supported
ReferenceClockAvailability ::= ENUMERATED {
    available,
    notAvailable
٦
ReferenceSFNoffset ::= INTEGER (0..255)
Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEQUENCE {
    reference-E-TFCI
                                     E-TFCI,
    -- The following IE shall be ignored if id-Ext-Reference-E-TFCI-PO is present in Reference-E-TFCI-Information-Item-ExtIEs
    reference-E-TFCI-PO
                                    Reference-E-TFCI-PO,
   iE-Extensions
                                    ProtocolExtensionContainer { { Reference-E-TFCI-Information-Item-ExtIEs } }
                                                                                                                     OPTIONAL,
    . . .
```

```
Reference-E-TFCI-Information-Item-ExtlEs NBAP-PROTOCOL-EXTENSION ::= {
    -- The following IE shall be present if the ref E-TFCI power offset to be signalled exceeds maxNrOfRefETFCI-PO-OUANTSTEPs
    { ID id-Ext-Reference-E-TFCI-PO
                                        CRITICALITY reject
                                                                EXTENSION Ext-Reference-E-TFCI-PO
                                                                                                                        PRESENCE optional },
    . . .
}
Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefETFCI-PO-OUANTSTEPs)
RepetitionLength ::= INTEGER (1..63)
RepetitionPeriod ::= ENUMERATED {
    v1,
    v2.
    v4,
    v8,
    v16,
    v32,
    v64,
    . . .
RepetitionNumber0 ::= INTEGER (0..255)
RepetitionNumber1 ::= INTEGER (1..256)
RefTFCNumber ::= INTEGER (0..3)
ReportCharacteristics ::= CHOICE {
    onDemand
                        NULL,
    periodic
                        ReportCharacteristicsType-ReportPeriodicity,
                        ReportCharacteristicsType-EventA,
    event-a
    event-b
                        ReportCharacteristicsType-EventB,
                        ReportCharacteristicsType-EventC,
    event-c
    event-d
                        ReportCharacteristicsType-EventD,
    event-e
                        ReportCharacteristicsType-EventE,
    event-f
                        ReportCharacteristicsType-EventF,
    . . . ,
    extension-ReportCharacteristics
                                        Extension-ReportCharacteristics
Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}
Extension-ReportCharacteristicsIE NBAP-PROTOCOL-IES ::= {
     ID id-ReportCharacteristicsType-OnModification CRITICALITY reject TYPE ReportCharacteristicsType-OnModification PRESENCE mandatory }
ReportCharacteristicsType-EventA ::= SEQUENCE {
    measurementThreshold
                                    ReportCharacteristicsType-MeasurementThreshold,
                                    ReportCharacteristicsType-ScaledMeasurementHysteresisTime
    measurementHysteresisTime
                                                                                                                        OPTIONAL,
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
```

```
ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventB ::= SEQUENCE {
    measurementThreshold
                                     ReportCharacteristicsType-MeasurementThreshold,
    measurementHysteresisTime
                                     ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                                         OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs } }
                                                                                                                         OPTIONAL,
ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ReportCharacteristicsType-EventC ::= SEQUENCE {
    measurementIncreaseThreshold
                                     ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
                                     ReportCharacteristicsType-ScaledMeasurementChangeTime,
    measurementChangeTime
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ReportCharacteristicsType-EventD ::= SEQUENCE {
    measurementDecreaseThreshold
                                    ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                     ReportCharacteristicsType-ScaledMeasurementChangeTime,
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-EventE ::= SEQUENCE {
    measurementThreshold1
                                     ReportCharacteristicsType-MeasurementThreshold,
    measurementThreshold2
                                     ReportCharacteristicsType-MeasurementThreshold
                                                                                                  OPTIONAL,
    measurementHysteresisTime
                                     ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                  OPTIONAL,
    reportPeriodicity
                                     ReportCharacteristicsType-ReportPeriodicity
                                                                                                  OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs } }
                                                                                                                         OPTIONAL,
ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ReportCharacteristicsType-EventF ::= SEQUENCE {
    measurementThreshold1
                                     ReportCharacteristicsType-MeasurementThreshold,
                                     ReportCharacteristicsType-MeasurementThreshold
    measurementThreshold2
                                                                                                  OPTIONAL,
    measurementHysteresisTime
                                     ReportCharacteristicsType-ScaledMeasurementHysteresisTime
                                                                                                  OPTIONAL,
```

```
reportPeriodicity
                                    ReportCharacteristicsType-ReportPeriodicity
                                                                                                OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
ReportCharacteristicsType-OnModification ::= SEQUENCE
    measurementThreshold
                                    ReportCharacteristicsType-MeasurementThreshold,
                                    ProtocolExtensionContainer { { ReportCharacteristicsType-OnModification-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL.
        . . .
ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    received-total-wide-band-power
                                                            Received-total-wide-band-power-Value-IncrDecrThres,
    transmitted-carrier-power
                                    Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles
                                            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP
                                    UL-TimeslotISCP-Value-IncrDecrThres,
    cir
                                SIR-Value-IncrDecrThres,
                                SIR-Error-Value-IncrDecrThres.
    sir-error
                                    Transmitted-Code-Power-Value-IncrDecrThres,
    transmitted-code-power
    rscp
                                    RSCP-Value-IncrDecrThres,
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
    notUsed-1-acknowledged-PCPCH-access-preambles
                                                        NULL,
                                                        NULL,
    notUsed-2-detected-PCPCH-access-preambles
    extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold
                                                                                     Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission
                                                                            CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory
{ ID id-Transmitted-Carrier-Power-For-CellPortion
                                                        CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                    PRESENCE mandatory }|
{ ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value-IncrDecrThres
                                                                                                                                         PRESENCE
mandatorv }|
                                                                                                                    CRITICALITY reject TYPE
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortion
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue
                                                                    PRESENCE mandatory }|
 ID id-UpPTSInterferenceValue
                                    CRITICALITY reject TYPE UpPTSInterferenceValue
                                                                                            PRESENCE mandatory } |
  ID id-Received-Scheduled-EDCH-Power-Share
                                                CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                                       PRESENCE mandatory } |
 ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres
                                                                                                                       PRESENCE mandatory }
ReportCharacteristicsType-MeasurementThreshold ::= CHOICE
```

```
received-total-wide-band-power
```

Received-total-wide-band-power-Value,

acknowledged-prach-preambles Acknowle uL-TimeslotISCP UL-TimeslotISCP sir SIR-Value, sir-error SIR-Error-Value,		
transmitted-code-power Transmitted-Code	e-Power-Value,	
rscp RSCP-Value, rx-timing-deviation Rx-Timing-Deviat		
round-trip-time Round-Trip-Time-		
notUsed-1-acknowledged-PCPCH-access-preambles	NULL,	
notUsed-2-detected-PCPCH-access-preambles	NULL,	
••••		
extension-ReportCharacteristicsType-Measurement: }	Threshold Extension-ReportCharacteristicsType-MeasurementThreshol	d
Extension-ReportCharacteristicsType-MeasurementThres MeasurementThresholdIE }}	shold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacterist	icsType-
Extension-ReportCharacteristicsType-MeasurementThres	sholdIE NBAP-PROTOCOL-IES ::= {	
{ ID id-TUTRANGPSMeasurementThresholdInformation { ID id-SFNSFNMeasurementThresholdInformation { ID id-Rx-Timing-Deviation-Value-LCR { ID id-Rx-Timing-Deviation-Value-LCR	CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR	PRESENCE mandatory }   PRESENCE mandatory }   PRESENCE mandatory }
•	alue CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Valu Threshold Value for HS-SICH Reception Quality are less than or equal to	= 2 1
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsed		20
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransm:		
{    ID id-HS-DSCHRequiredPowerValue	CRITICALITY reject TYPE HS-DSCHRequiredPowerValue	PRESENCE mandatory}
	on CRITICALITY reject TYPE Transmitted-Carrier-Power-Value	PRESENCE mandatory }
-	Portion CRITICALITY reject TYPE Received-total-wide-band-power-Value	PRESENCE mandatory }
	• •	CICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransm: { ID id-UpPTSInterferenceValue	issionValue PRESENCE mandatory }  CRITICALITY reject TYPE UpPTSInterferenceValue	PRESENCE mandatory }
{ ID id-DLTransmissionBranchLoadValue	CRITICALITY reject TYPE DLTransmissionBranchLoadValue	PRESENCE mandatory }
	ion CRITICALITY reject TYPE HS-DSCHRequiredPowerValue	PRESENCE mandatory }
<pre>{ ID id-E-DCH-Non-serving-Relative-Grant-Down-Co PRESENCE mandatory } </pre>		
<pre>{ ID id-Rx-Timing-Deviation-Value-768</pre>	CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768	PRESENCE mandatory }
{ ID id-Rx-Timing-Deviation-Value-384-ext	CRITICALITY reject TYPE Rx-Timing-Deviation-Value-384-ext	PRESENCE mandatory }
{ ID id-Extended-Round-Trip-Time-Value	CRITICALITY reject TYPE Extended-Round-Trip-Time-Value	PRESENCE mandatory }
{ ID id-Received-Scheduled-EDCH-Power-Share	CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres	PRESENCE mandatory }
	-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres asurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Meas	PRESENCE mandatory }  urement-Value
	ne Measurement Threshold Value for HS-SICH Reception Quality are more th	an 20, Measurement
Threshold Value = 20 + IE Value	ion CRITICALITY reject TYPE TUTRANGANSSMeasurementThresholdInformation	PRESENCE mandatory }
{ 15 10-101/ANGANSS//eastrement111es/i01011101/mat. }		FREDERCE Mandacory ;
ReportCharacteristicsType-ScaledMeasurementChangeTim msec MeasurementChangeTime-Scaled		
}		
MeasurementChangeTime-Scaledmsec ::= INTEGER (160	00,)	

```
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= CHOICE {
                        MeasurementHysteresisTime-Scaledmsec,
    msec
    . . .
}
MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
    msec
                        ReportPeriodicity-Scaledmsec,
    min
                        ReportPeriodicity-Scaledmin,
    . . .
3
ReportPeriodicity-Scaledmsec ::= INTEGER (1..6000,...)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms
ReportPeriodicity-Scaledmin ::= INTEGER (1..60,...)
-- Unit min, Range 1min .. 60min(hour), Step 1min
ReportPeriodicity-Scaledhour ::= INTEGER (1..24,...)
-- Unit hour, Range 1hour .. 24hours(day), Step 1hour
ResourceOperationalState ::= ENUMERATED {
    enabled,
    disabled
RL-ID ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
RLC-Mode
           ::= ENUMERATED {
    rLC-AM,
    rLC-UM,
    . . .
}
Round-Trip-Time-IncrDecrThres ::= INTEGER(0...32766)
RNC-ID
                        ::= INTEGER (0..4095)
Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [22]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]
RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
```

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Received-total-wide-band-power-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Received-total-wide-band-power-For-CellPortion-Value-Item

```
Received-total-wide-band-power-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID,
                                            Received-total-wide-band-power-Value,
    received-total-wide-band-power-value
   iE-Extensions
                                            ProtocolExtensionContainer { { Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs } }
    OPTIONAL,
    . . .
Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
Received-total-wide-band-power-Value ::= INTEGER(0..621)
-- According to mapping in [22]/[23]
Received-total-wide-band-power-Value-IncrDecrThres ::= INTEGER (0..620)
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Received-Scheduled-EDCH-Power-
Share-For-CellPortion-Value-Item
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID.
    received-Scheduled-power-share-value
                                            RSEPS-Value,
    received-total-wide-band-power-value
                                            Received-total-wide-band-power-Value
                                                                                         OPTIONAL,
                                            ProtocolExtensionContainer { { Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Received-Scheduled-EDCH-Power-Share-Value ::= SEQUENCE{
    received-Scheduled-power-share-value
                                            RSEPS-Value,
    received-total-wide-band-power-value
                                            Received-total-wide-band-power-Value
                                                                                         OPTIONAL,
    . . .
RSEPS-Value-IncrDecrThres ::= INTEGER (0..151)
RSEPS-Value ::= INTEGER (0..151)
-- According to mapping in [22]
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                                InformationAvailable,
    informationnotAvailable
                                InformationnotAvailable
```

```
}
InformationAvailable::= SEQUENCE {
    requesteddataValue
                            RequestedDataValue,
                            ProtocolExtensionContainer { { InformationAvailableItem-ExtIEs } }
    ie-Extensions
                                                                                                                      OPTIONAL,
    . . .
}
InformationAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InformationnotAvailable ::= NULL
RequestedDataValue ::= SEQUENCE {
    dgps-corrections
                            DGPSCorrections
                                                                                              OPTIONAL,
    qps-navandrecoverv
                            GPS-NavigationModel-and-TimeRecovery
                                                                                                  OPTIONAL.
    qps-ionos-model
                            GPS-Ionospheric-Model
                                                                                                  OPTIONAL,
    gps-utc-model
                            GPS-UTC-Model
                                                                                              OPTIONAL,
    qps-almanac
                            GPS-Almanac
                                                                                              OPTIONAL,
                            GPS-RealTime-Integrity
    qps-rt-integrity
                                                                                              OPTIONAL,
    qpsrxpos
                            GPS-RX-POS
                                                                                              OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { { RequestedDataValue-ExtIEs} }
                                                                                              OPTIONAL,
    . . .
3
RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ID id-GANSS-Common-Data
                                        CRITICALITY ignore
                                                                                                                         PRESENCE optional }|
                                                                 EXTENSION GANSS-Common-Data
     ID id-GANSS-Generic-Data
                                        CRITICALITY ignore
                                                                                                                         PRESENCE optional },
                                                                 EXTENSION GANSS-Generic-Data
    . . .
}
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
-- According to mapping in [23]
Rx-Timing-Deviation-Value-384-ext ::= INTEGER (0..32767)
-- According to mapping in [23]
RefBeta ::= INTEGER (-15..16)
RTWP-ReportingIndicator ::= ENUMERATED {
    rTWP-reporting-required}
RTWP-CellPortion-ReportingIndicator ::= ENUMERATED {
    rTWP-CellPortion-reporting-required}
```

```
_____
-- S
AdjustmentPeriod
                        ::= INTEGER(1..256)
-- Unit Frame
E-DPCCH-Power-Boosting-Capability ::= ENUMERATED {
   e-DPCCH-Power-Boosting-capable,
    e-DPCCH-Power-Boosting-non-capable
}
SAT-ID ::= INTEGER (0..63)
SAT-Info-Almanac ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-Almanac-Item
SAT-Info-Almanac-Item ::= SEQUENCE {
   data-id
                     DATA-ID,
   sat-id
                     SAT-ID,
   qps-e-alm
                     BIT STRING (SIZE (16)),
   qps-toa-alm
                     BIT STRING (SIZE (8)),
   gps-delta-I-alm BIT STRING (SIZE (16)),
   omegadot-alm
                     BIT STRING (SIZE (16)),
    svhealth-alm
                     BIT STRING (SIZE (8)),
   qps-a-sgrt-alm
                     BIT STRING (SIZE (24)),
   omegazero-alm
                     BIT STRING (SIZE (24)),
   m-zero-alm
                     BIT STRING (SIZE (24)),
   gps-omega-alm
                     BIT STRING (SIZE (24)),
   gps-af-zero-alm BIT STRING (SIZE (11)),
   qps-af-one-alm
                     BIT STRING (SIZE (11)),
   ie-Extensions
                     ProtocolExtensionContainer { { SAT-Info-Almanac-Item-ExtIEs } }
                                                                                      OPTIONAL,
   . . .
   -- This GPS-Almanac-Information is for the 1<sup>st</sup> 16 satellites
SAT-Info-Almanac-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SAT-Info-Almanac-ExtList
                          ::= SEQUENCE (SIZE (1..maxNrOfSatAlmanac-maxNoSat)) OF SAT-Info-Almanac-ExtItem
SAT-Info-Almanac-ExtItem
                        ::= SEQUENCE {
   data-id
                 DATA-ID,
   sat-id
                     SAT-ID,
                     BIT STRING (SIZE (16)),
   qps-e-alm
   qps-toa-alm
                     BIT STRING (SIZE (8)),
   qps-delta-I-alm BIT STRING (SIZE (16)),
   omegadot-alm
                     BIT STRING (SIZE (16)),
    svhealth-alm
                     BIT STRING (SIZE (8)),
   qps-a-sqrt-alm
                     BIT STRING (SIZE (24)),
   omegazero-alm
                     BIT STRING (SIZE (24)),
   m-zero-alm
                     BIT STRING (SIZE (24)),
```

```
qps-omega-alm
                       BIT STRING (SIZE (24)),
    qps-af-zero-alm BIT STRING (SIZE (11)),
    qps-af-one-alm
                       BIT STRING (SIZE (11)),
   ie-Extensions
                       ProtocolExtensionContainer { { SAT-Info-Almanac-ExtItemIEs } }
                                                                                             OPTIONAL,
   . . .
} -- Includes the GPS-Almanac-Information for 17<sup>th</sup> through 32<sup>nd</sup> satellites.
SAT-Info-Almanac-ExtItemIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SAT-Info-DGPSCorrections ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-DGPSCorrections-Item
SAT-Info-DGPSCorrections-Item ::= SEQUENCE {
    sat-id
                                            SAT-ID,
   iode-dqps
                                            BIT STRING (SIZE (8)),
    udre
                                            UDRE,
    prc
                                            PRC,
    range-correction-rate
                                            Range-Correction-Rate,
                                            ProtocolExtensionContainer { { SAT-Info-DGPSCorrections-Item-ExtIEs } } OPTIONAL,
   ie-Extensions
   . . .
SAT-Info-DGPSCorrections-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
}
SATInfo-RealTime-Integrity ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-RealTime-Integrity-Item
SAT-Info-RealTime-Integrity-Item ::= SEQUENCE {
 bad-sat-id
                  SAT-ID,
 ie-Extensions
                  ProtocolExtensionContainer { { SAT-Info-RealTime-Integrity-Item-ExtIEs } }
                                                                                                                      OPTIONAL,
   . . .
}
SAT-Info-RealTime-Integrity-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
ScaledAdjustmentRatio
                          ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
MaxAdjustmentStep
                          ::= INTEGER(1..10)
-- Unit Slot
SchedulingInformation
                                ::= ENUMERATED {
   included,
    not-included
}
SchedulingPriorityIndicator
                                        ::= INTEGER (0..15) -- lowest (0), highest (15)
```

```
SID ::= INTEGER (0..maxNrOfMACdPDUIndexes-1)
ScramblingCodeNumber ::= INTEGER (0..15)
Secondary-CPICH-Information-Change ::= CHOICE {
    new-secondary-CPICH
                                         CommonPhysicalChannelID,
    secondary-CPICH-shall-not-be-used NULL,
. . .
}
SecondaryCCPCH-SlotFormat ::= INTEGER(0..17,...)
Secondary-CCPCH-SlotFormat-Extended ::= INTEGER(18..23,...)
Segment-Type ::= ENUMERATED {
        first-segment,
        first-segment-short,
        subsequent-segment,
        last-segment,
        last-segment-short,
        complete-SIB,
        complete-SIB-short,
        . . .
Serving-E-DCH-RL-ID ::= CHOICE {
    serving-E-DCH-RL-in-this-NodeB
                                                 Serving-E-DCH-RL-in-this-NodeB,
    serving-E-DCH-RL-not-in-this-NodeB
                                                 NULL,
    . . .
}
Serving-E-DCH-RL-in-this-NodeB ::= SEQUENCE {
    rL-TD
                                                 RL-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Serving-E-DCH-RL-in-this-NodeB-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
}
Serving-E-DCH-RL-in-this-NodeB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER (0..614399)
SFNSFN-TDD ::= INTEGER (0..40961)
SFNSFN-TDD768 ::= INTEGER (0..81923)
SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
SFNSFNDriftRate ::= INTEGER (-100..100)
```

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-- Unit chip/s, Step 1/256 chip/s, Range -100/256..+100/256 chip/s SFNSFNDriftRateQuality ::= INTEGER (0..100) -- Unit chip/s, Step 1/256 chip/s, Range 0..100/256 chip/s SFNSFNMeasurementThresholdInformation::= SEQUENCE { sFNSFNChangeLimit SFNSFNChangeLimit OPTIONAL. predictedSFNSFNDeviationLimit PredictedSFNSFNDeviationLimit OPTIONAL, iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs } } OPTIONAL, SFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } SFNSFNMeasurementValueInformation ::= SEQUENCE { successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF SEQUENCE { uC-Id UC-Id, sFNSFNValue SFNSFNValue, sFNSFNOuality SFNSFNQuality OPTIONAL, sFNSFNDriftRate SFNSFNDriftRate, sFNSFNDriftRateQuality SFNSFNDriftRateOuality OPTIONAL, sFNSFNTimeStampInformation SFNSFNTimeStampInformation, iE-Extensions ProtocolExtensionContainer { { SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs} } OPTIONAL, . . . }, unsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF SEQUENCE { uC-Id UC-Id, iE-Extensions ProtocolExtensionContainer { { UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs } } OPTIONAL, }, iE-Extensions ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs } } OPTIONAL, . . . SFNSFNMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { } UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . .

```
}
SFNSFNQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
ShutdownTimer ::= INTEGER (1..3600)
-- Unit sec
SIB-Originator ::= ENUMERATED {
    nodeB,
    cRNC,
    . . .
SIR-Error-Value ::= INTEGER (0..125)
-- According to mapping in [22]
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                            SFN,
    sFNSFNTimeStamp-TDD
                            SFNSFNTimeStamp-TDD,
    ...}
SFNSFNTimeStamp-TDD::= SEQUENCE {
    sFN
                        SFN,
    timeSlot
                        TimeSlot,
                                     ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} }
                                                                                                                       OPTIONAL,
    iE-Extensions
    . . .
}
SFNSFNTimeStamp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SFNSFNValue ::= CHOICE {
    sFNSFN-FDD
                    SFNSFN-FDD,
    sFNSFN-TDD
                    SFNSFN-TDD,
                                         --- 1.28Mcps and 3.84Mcps TDD only
    . . . ,
    sFNSFN-TDD768 SFNSFN-TDD768
}
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value ::= INTEGER (0..63)
-- According to mapping in [22]/[23]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SignallingBearerRequestIndicator::= ENUMERATED {bearerRequested}
```

```
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```

```
SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
    allowed,
    not-allowed
SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
    sixtyfourQAM-DL-used,
    sixtyfourQAM-DL-not-used
}
SixtyfourQAM-DL-Capability ::= ENUMERATED {
    sixtyfourQAM-DL-supported,
    sixtyfourQAM-DL-not-supported
}
SignatureSequenceGroupIndex ::= INTEGER (0..19)
SixteenQAM-UL-Capability ::= ENUMERATED {
    sixteenQAM-UL-capable,
    sixteenQAM-UL-non-capable
}
SixteenQAM-UL-Operation-Indicator ::= ENUMERATED {
    activate,
    deactivate
}
SNPL-Reporting-Type ::= ENUMERATED {
    type1,
    type2
SpecialBurstScheduling := INTEGER (1..256) -- Number of frames between special burst transmission during DTX
Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    start-of-audit-sequence,
    not-start-of-audit-sequence
}
STTD-Indicator ::= ENUMERATED {
    active,
    inactive,
    . . .
}
SSDT-SupportIndicator ::= ENUMERATED {
    not-Used-sSDT-Supported,
    sSDT-not-supported
```

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```
SyncCase ::= INTEGER (1..2,...)
SYNCDlCodeId ::= INTEGER (1..32,...)
SyncFrameNumber ::= INTEGER (1..10)
SynchronisationReportCharacteristics ::= SEQUENCE
                                                SynchronisationReportCharacteristicsType,
    synchronisationReportCharacteristicsType
    synchronisationReportCharactThreExc
                                                SynchronisationReportCharactThreExc
                                                                                         OPTIONAL,
        -- This IE shall be included if the synchronisationReportCharacteristicsType IE is set to 'thresholdExceeding'.
                                                ProtocolExtensionContainer { { SynchronisationReportCharacteristics-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
SynchronisationReportCharacteristics-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-SyncDLCodeIdThreInfoLCR CRITICALITY ignore EXTENSION
                                                                    SyncDLCodeIdThreInfoLCR
                                                                                                 PRESENCE optional },
    . . .
3
SynchronisationReportCharactThreExc ::=
                                            SEQUENCE (SIZE (1..maxNrOfCellSyncBursts)) OF SynchronisationReportCharactThreInfoItem -- Mandatory
for 3.84Mcps TDD only. Not Applicable to 1.28Mcps TDD.
SynchronisationReportCharactThreInfoItem ::= SEQUENCE {
    syncFrameNumber
                                SyncFrameNumber,
                                SEQUENCE (SIZE (1.. maxNrOfReceptsPerSyncFrame)) OF SynchronisationReportCharactCellSyncBurstInfoItem,
    cellSyncBurstInformation
    iE-Extensions
                                ProtocolExtensionContainer { { SynchronisationReportCharactThreInfoItem-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE {
    cellSyncBurstCode
                                    CellSyncBurstCode,
    cellSyncBurstCodeShift
                                    CellSyncBurstCodeShift,
    cellSyncBurstTiming
                                    CellSyncBurstTiming
                                                                    OPTIONAL,
    cellSyncBurstTimingThreshold
                                    CellSyncBurstTimingThreshold
                                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
SyncDLCodeIdThreInfoLCR ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdThreInfoList --Mandatory for 1.28Mcps TDD only. Not
Applicable to 3.84Mcps TDD.
SyncDLCodeIdThreInfoList ::= SEQUENCE {
    syncFrameNoToReceive
                                    SyncFrameNumber,
    syncDLCodeIdInfoLCR
                                    SyncDLCodeInfoListLCR,
```

```
ProtocolExtensionContainer { { SyncDLCodeIdThreInfoList-ExtIEs } }
                                                                                                       OPTIONAL,
    iE-Extensions
    . . .
SyncDLCodeIdThreInfoList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SyncDLCodeInfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfSyncDLCodesLCR)) OF SyncDLCodeInfoItemLCR
SyncDLCodeInfoItemLCR ::= SEQUENCE {
                                   SYNCDlCodeId,
    syncDLCodeId
                                   CellSyncBurstTimingLCR
    syncDLCodeIdArrivTime
                                                                     OPTIONAL,
    syncDLCodeIdTimingThre
                                  CellSyncBurstTimingThreshold
                                                                     OPTIONAL,
    iE-Extensions
                                  ProtocolExtensionContainer { { SyncDLCodeInfoItem-LCR-ExtIEs } }
                                                                                                    OPTIONAL,
    . . .
SyncDLCodeInfoItem-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
SynchronisationReportCharacteristicsType ::= ENUMERATED
    frameRelated,
    sFNperiodRelated,
    cycleLengthRelated,
    thresholdExceeding,
    frequencyAcquisitionCompleted,
    . . .
}
SynchronisationReportType ::= ENUMERATED {
    initialPhase,
    steadyStatePhase,
    lateEntrantCell,
    frequencyAcquisition,
    . . .
      -- T
- -
   _____
T1 ::= ENUMERATED {v10,v20,v30,v40,v50,v60,v70,v80,v90,v100,v120,v140,v160,v200,v300,v400,...}
T-Cell ::= ENUMERATED {
   v0,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
```

. . .

```
v8,
    v9
}
T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s
TDD-AckNack-Power-Offset ::= INTEGER (-7..8,...)
-- Unit dB, Range -7dB .. +8dB, Step 1dB
TDD-ChannelisationCode ::= ENUMERATED {
    chCodeldiv1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9.
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    . . .
}
TDD-ChannelisationCodeLCR ::= SEQUENCE {
    tDD-ChannelisationCode
                                     TDD-ChannelisationCode,
    modulation
                                     Modulation, -- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD or 7.68Mcps TDD
                                             ProtocolExtensionContainer { { TDD-ChannelisationCodeLCR-ExtIEs } }
    iE-Extensions
    . . .
}
TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

OPTIONAL,

}

TDD-ChannelisationCode768	::= ENUMERATED {
chCodeldiv1,	
chCode2div1,	
chCode2div2,	
chCode4div1,	
chCode4div2,	
chCode4div3,	
chCode4div4,	
chCode8div1,	
chCode8div2,	
chCode8div3,	
chCode8div4,	
chCode8div5,	
chCode8div6,	
chCode8div7,	
chCode8div8,	
chCode16div1,	
chCode16div2,	
chCode16div3,	
chCode16div4,	
chCode16div5,	
chCode16div6,	
chCode16div7,	
chCode16div8,	
chCode16div9,	
chCode16div10,	
chCode16div11,	
chCode16div12,	
chCode16div13,	
chCode16div14,	
chCode16div15,	
chCode16div16,	
chCode32div1,	
chCode32div2,	
chCode32div3,	
chCode32div4,	
chCode32div5,	
chCode32div6,	
chCode32div7,	
chCode32div8,	
chCode32div9,	
chCode32div10,	
chCode32div10,	
chCode32div12,	
chCode32div12,	
-	
chCode32div14,	
chCode32div15,	
chCode32div16,	
chCode32div17,	
chCode32div18,	
chCode32div19,	

```
chCode32div20,
    chCode32div21.
    chCode32div22.
    chCode32div23,
    chCode32div24,
    chCode32div25,
    chCode32div26,
    chCode32div27,
    chCode32div28,
    chCode32div29,
    chCode32div30,
    chCode32div31,
    chCode32div32,
    . . .
TDD-DL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem
TDD-DL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCode
                                             TDD-ChannelisationCode,
                                             ProtocolExtensionContainer { { TDD-DL-Code-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-DL-Code-LCR-InformationItem
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
                                             TDD-ChannelisationCodeLCR,
    tdd-ChannelisationCodeLCR
    tdd-DL-DPCH-TimeSlotFormat-LCR
                                             TDD-DL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
}
TDD-DL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-768-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-768-InformationItem
TDD-DL-Code-768-InformationItem ::= SEOUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCode768
                                             TDD-ChannelisationCode768,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-DL-Code-768-InformationItem-ExtIEs } }
                                                                                                                             OPTIONAL
    . . .
}
TDD-DL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
    qPSK
                                OPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
                                 EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format
    . . .
}
QPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
-- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format, INTEGER(0..11,...)
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                        INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
}
TDD-PhysicalChannelOffset ::= INTEGER (0..63)
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    . . .
TDD-TPC-UplinkStepSize-LCR ::= ENUMERATED
    step-size1,
    step-size2,
    step-size3,
    . . .
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors
                                 SEQUENCE {
        gainFactor
                                     CHOICE {
            fdd
                                         SEQUENCE
                betaC
                                             BetaCD.
                betaD
                                             BetaCD.
                iE-Extensions
                                     ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } }
                                                                                                   OPTIONAL,
                . . .
            },
            t.dd
                                         BetaCD,
            . . .
        },
        refTFCNumber
                                     RefTFCNumber
                                                      OPTIONAL,
        iE-Extensions
                                 ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } }
                                                                                                                        OPTIONAL,
        . . .
    },
    computedGainFactors
                                     RefTFCNumber,
    . . .
}
```

```
GainFactorFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem
TDD-UL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCode
                                             TDD-ChannelisationCode,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-UL-Code-InformationItem-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
3
TDD-UL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-UL-Code-LCR-InformationItem
TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCodeLCR
                                             TDD-ChannelisationCodeLCR,
    tdd-UL-DPCH-TimeSlotFormat-LCR
                                             TDD-UL-DPCH-TimeSlotFormat-LCR,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
}
TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-768-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-768-InformationItem
TDD-UL-Code-768-InformationItem ::= SEQUENCE
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCode768
                                             TDD-ChannelisationCode768,
                                             ProtocolExtensionContainer { { TDD-UL-Code-768-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
TDD-UL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
    qPSK
                                OPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
                                EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    . . .
}
```

```
QPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..69,...)
EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    . . .
TFCI-Presence ::= ENUMERATED {
    present,
    not-present
}
TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption
                                 TFCI-SignallingMode-TFCI-SignallingOption,
    not-Used-splitType
                                 NULL
                                                     OPTIONAL,
    not-Used-lengthOfTFCI2
                                NULL
                                                     OPTIONAL,
                                 ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }
    iE-Extensions
                                                                                                                       OPTIONAL,
    . . .
l
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    not-Used-split
}
TGD
                    ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
TGPRC
                    ::= INTEGER (0..511)
-- 0 = infinity
TGPSID
                    ::= INTEGER (1.. maxTGPS)
TGSN
                    ::= INTEGER (0..14)
TimeSlot ::= INTEGER (0..14)
TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    . . .
}
```

TimeSlot-InitiatedListLCR ::= SEQUENCE (SIZE (0..6)) OF TimeSlotLCR

```
TimeSlotLCR ::= INTEGER (0..6)
TimeslotLCR-Extension ::= ENUMERATED
    ts7,
    . . .
}
-- ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier.
TimeSlotMeasurementValueListLCR::= SEQUENCE (SIZE (1..6)) OF TimeSlotMeasurementValueLCR
TimeSlotMeasurementValueLCR ::= SEQUENCE {
    timeSlotLCR
                                 TimeSlotLCR,
    commonMeasurementValue
                                 CommonMeasurementValue,
    iE-Extensions
                                 ProtocolExtensionContainer { { TimeSlotMeasurementValueListLCR-ExtIEs } } OPTIONAL,
    . . .
3
TimeSlotMeasurementValueListLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    . . .
TimingAdjustmentValue ::= CHOICE {
    initialPhase
                        INTEGER (0..1048575,...),
    steadyStatePhase
                       INTEGER (0..255,...)
}
TimingAdjustmentValueLCR ::= CHOICE {
    initialPhase
                        INTEGER (0..524287,...),
    steadyStatePhase INTEGER (0..127,...)
}
TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
}
SynchronisationIndicator ::= ENUMERATED {
    timingMaintainedSynchronisation,
    . . .
}
TnlQos ::= CHOICE {
    dsField
                            DsField,
    genericTrafficCategory GenericTrafficCategory,
    . . .
```

```
}
TOAWE ::= INTEGER (0..2559)
-- Unit ms
TOAWS ::= INTEGER (0..1279)
-- Unit ms
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEOUENCE {
        tGPSID
                        TGPSID,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        \pm GL2
                        GapLength
                                    OPTIONAL,
        t GD
                        TGD,
        tGPL1
                        GapDuration,
                                    GapDuration OPTIONAL,
       not-to-be-used-1
            -- This IE shall never be included in the SEQUENCE. If received it shall be ignored
       uL-DL-mode
                        UL-DL-mode,
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL"
       uplink-Compressed-Mode-Method
                                            Uplink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL"
        dL-FrameType
                            DL-FrameType,
        delta-SIR1
                            DeltaSIR,
        delta-SIR-after1
                            DeltaSIR,
        delta-SIR2
                                        OPTIONAL,
                            DeltaSIR
        delta-SIR-after2
                           DeltaSIR
                                        OPTIONAL,
                                ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Information-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
Transmission-Gap-Pattern-Sequence-Information-Extles NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
   code-change,
  nocode-change
ļ
```

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item

```
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item ::= SEOUENCE{
    cellPortionID
                                            CellPortionID.
    transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue,
    iE-Extensions
                                            ProtocolExtensionContainer { { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-
RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs} }
                                                            OPTIONAL,
    . . .
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION
::=
    . . .
ι
TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue ::= INTEGER(0..100)
-- According to mapping in [22] and [23]
Transmitted-Carrier-Power-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Transmitted-Carrier-Power-For-CellPortion-
Value-Item
Transmitted-Carrier-Power-For-CellPortion-Value-Item ::= SEQUENCE{
    cellPortionID
                                            CellPortionID,
    transmitted-Carrier-Power-Value
                                            Transmitted-Carrier-Power-Value,
    iE-Extensions
                                            ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs } }
   OPTIONAL,
    . . .
}
Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [22]/[23]
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [22]/[23]. Values 0 to 9 and 123 to 127 shall not be used.
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}
TFCS ::= SEOUENCE {
    tFCSvalues
                                CHOICE {
       no-Split-in-TFCI
                                    TFCS-TFCSList,
       not-Used-split-in-TFCI
                                    NULL,
        -- This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.
        . . .
```

```
},
    iE-Extensions
                        ProtocolExtensionContainer { { TFCS-ExtIEs} }
                                                                             OPTIONAL,
    . . .
TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEQUENCE {
        CTFC
                            TFCS-CTFC,
        tFC-Beta
                        TransportFormatCombination-Beta
                                                             OPTIONAL,
        -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD - or PCPCH channel].
        iE-Extensions
                            ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }
                                                                                         OPTIONAL,
        . . .
3
TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-CTFC ::= CHOICE {
    ctfc2bit
                                        INTEGER (0..3),
    ctfc4bit
                                        INTEGER (0..15),
    ctfc6bit
                                        INTEGER (0..63),
    ctfc8bit
                                        INTEGER (0..255),
    ctfc12bit
                                        INTEGER (0..4095),
    ctfc16bit
                                        INTEGER (0..65535),
    ctfcmaxbit
                                        INTEGER (0..maxCTFC)
}
Transport-Block-Size-Index ::= INTEGER(1..maxNrOfHS-DSCH-TBSs)
Transport-Block-Size-Index-for-Enhanced-PCH ::= INTEGER(1..32)
-- Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of [32]
Transport-Block-Size-List := SEQUENCE (SIZE (1..maxNrOfHS-DSCHTBSsE-PCH)) OF
    SEQUENCE {
        transport-Block-Size-Index-for-Enhanced-PCH
                                                             Transport-Block-Size-Index-for-Enhanced-PCH,
                                    ProtocolExtensionContainer { { Transport-Block-Size-List-ExtIEs} }
        iE-Extensions
                                                                                                                         OPTIONAL,
        . . .
Transport-Block-Size-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransportBearerRequestIndicator ::= ENUMERATED {
    bearerRequested,
    bearerNotRequested,
    . . .
}
```

```
TransportBearerNotRequestedIndicator ::= ENUMERATED {
    transport-bearer-shall-not-be-established,
    transport-bearer-may-not-be-established
}
TransportBearerNotSetupIndicator ::= ENUMERATED {
    transport-bearer-not-setup
TransportFormatSet ::= SEQUENCE {
    dynamicParts
                            TransportFormatSet-DynamicPartList,
    semi-staticPart
                            TransportFormatSet-Semi-staticPart,
                            ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }
    iE-Extensions
                                                                                                  OPTIONAL,
    . . .
TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1...maxNrOfTFs)) OF
    SEQUENCE {
       nrOfTransportBlocks
                                    TransportFormatSet-NrOfTransportBlocks,
        transportBlockSize
                                    TransportFormatSet-TransportBlockSize
                                                                                 OPTIONAL,
        -- This IE shall be present if the Number of Transport Blocks IE is set to a value greater than 0
                                    TransportFormatSet-ModeDP,
        mode
        iE-Extensions
                                    ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs } }
                                                                                                                         OPTIONAL,
        . . .
TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
    transmissionTimeIntervalInformation
                                            TransmissionTimeIntervalInformation
                                                                                      OPTIONAL,
    -- This IE shall be present if the Transmission Time Interval IE in the Semi-static Transport Format Information IE is set to 'dynamic'
                                            ProtocolExtensionContainer { { TDD-TransportFormatSet-ModeDP-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TDD-TransportFormatSet-ModeDP-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    . . .
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
    SEOUENCE
       transmissionTimeInterval
                                        TransportFormatSet-TransmissionTimeIntervalDynamic,
                                        ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs } }
    iE-Extensions
                                                                                                                            OPTIONAL
    . . .
}
TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

}

```
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval
                                         TransportFormatSet-TransmissionTimeIntervalSemiStatic,
                                     TransportFormatSet-ChannelCodingType,
    channelCoding
    codingRate
                                     TransportFormatSet-CodingRate
                                                                                  OPTIONAL,
    -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or 'turbo'
                                    TransportFormatSet-RateMatchingAttribute,
    rateMatchingAttribute
    cRC-Size
                                     TransportFormatSet-CRC-Size,
    mode
                                     TransportFormatSet-ModeSSP
    iE-Extensions
                                     ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs} }
                                                                                                                          OPTIONAL,
    . . .
TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-codingTDD,
    convolutional-coding,
    turbo-coding,
    . . .
l
TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    . . .
}
TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    . . .
TransportFormatSet-ModeDP ::= CHOICE {
    tdd
                        TDD-TransportFormatSet-ModeDP,
    notApplicable
                                NULL,
    . . .
}
TransportFormatSet-ModeSSP ::= CHOICE {
                    TransportFormatSet-SecondInterleavingMode,
    tdd
    notApplicable
                                NULL,
    . . .
}
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..512)
```

```
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)
TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeSlot-related,
    . . .
}
TransportFormatSet-TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    . . .
TransportFormatSet-TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    ...,
    msec-5
TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)
TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
TSN-Length ::= ENUMERATED {
    tsn-6bits,
    tsn-9bits
}
TUTRANGANSS ::= SEQUENCE {
    mS
                    INTEGER(0..16383),
    lS
                    INTEGER(0..4294967295)
}
TUTRANGANSSAccuracyClass ::= ENUMERATED {
    ganssAccuracy-class-A,
    ganssAccuracy-class-B,
    ganssAccuracy-class-C,
    . . .
}
TUTRANGANSSMeasurementThresholdInformation ::= SEQUENCE
```

```
tUTRANGANSSChangeLimit
                                         INTEGER(1..256)
                                                                                                                      OPTIONAL,
    predictedTUTRANGANSSDeviationLimit INTEGER(1..256)
                                                                                                                      OPTIONAL,
    ie-Extensions
                            ProtocolExtensionContainer { { TUTRANGANSSMeasurementThresholdInformation-ExtIEs } }
                                                                                                                       OPTIONAL
    . . .
TUTRANGANSSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
    tutranganss
                                    TUTRANGANSS,
    tUTRANGANSSQuality
                                    INTEGER(0..255)
                                                                                                                      OPTIONAL,
    tUTRANGANSSDriftRate
                                    INTEGER(-50..50),
    tUTRANGANSSDriftRateQuality
                                    INTEGER(0..50)
                                                                                                                      OPTIONAL,
                            ProtocolExtensionContainer { { TUTRANGANSSMeasurementValueInformation-ExtIEs } }
                                                                                                                      OPTIONAL,
    ie-Extensions
    . . .
TUTRANGANSSMeasurementValueInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPS ::= SEQUENCE {
                INTEGER (0..16383),
    ms-part
    ls-part
                INTEGER (0..4294967295)
}
TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s
TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s
TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,
    accuracy-class-B,
    accuracy-class-C,
    . . .
}
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                             TUTRANGPSChangeLimit
                                                                                      OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                             PredictedTUTRANGPSDeviationLimit
                                                                                      OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
}
```

```
TUTRANGPSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
       LUTRANGPS
                                      TUTRANGPS,
       tUTRANGPSQuality
                                      TUTRANGPSQuality
                                                                     OPTIONAL,
       tUTRANGPSDriftRate
                                      TUTRANGPSDriftRate,
       tUTRANGPSDriftRateQuality
                                      TUTRANGPSDriftRateQuality
                                                                     OPTIONAL,
       iE-Extensions
                                      ProtocolExtensionContainer { { TUTRANGPSMeasurementValueInformationItem-ExtIEs } }
                                                                                                                      OPTIONAL,
       . . .
l
TUTRANGPSMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
TxDiversityOnDLControlChannelsByMIMOUECapability ::= ENUMERATED {
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Capable,
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Not-Capable
}
TypeOfError ::= ENUMERATED {
   not-understood,
   missing,
    . . .
- -
  TT
UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to OMHz .. 3276.6MHz
UC-Id ::= SEQUENCE {
   rNC-ID
                       RNC-ID,
    c-ID
                       C-ID,
                          ProtocolExtensionContainer { {UC-Id-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UC-Id-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                           optional},
    { ID id-Extended-RNC-ID
                              CRITICALITY reject
                                                     EXTENSION Extended-RNC-ID PRESENCE
    . . .
}
UDRE ::= ENUMERATED {
    udre-minusequal-one-m,
   udre-betweenoneandfour-m,
```

```
udre-betweenfourandeight-m,
    udre-greateregualeight-m
}
UE-Capability-Information ::= SEQUENCE {
    hSDSCH-Physical-Layer-Category
                                         INTEGER (1...64,...),
                                         ProtocolExtensionContainer { { UE-Capability-Information-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
}
UE-Capability-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-LCRTDD-uplink-Physical-Channel-Capability
                                                             CRITICALITY ignore
                                                                                      EXTENSION LCRTDD-Uplink-Physical-Channel-Capability
    PRESENCE optional } |
    {ID id-number-Of-Supported-Carriers
                                                                                      EXTENSION Number-Of-Supported-Carriers
                                                             CRITICALITY reject
    PRESENCE optional } |
    {ID id-MultiCarrier-HSDSCH-Physical-Layer-Category
                                                                                      EXTENSION LCRTDD-HSDSCH-Physical-Layer-Category
                                                             CRITICALITY ignore
                                                                                                                                              PRESENCE
optional},
    . . .
LCRTDD-HSDSCH-Physical-Layer-Category ::= INTEGER (1..64)
UE-DPCCH-burst1 ::= ENUMERATED {v1, v2, v5}
    -- Unit subframe
UE-DPCCH-burst2 ::= ENUMERATED {v1, v2, v5}
    -- Unit subframe
UE-DRX-Cycle ::= ENUMERATED {v4, v5, v8, v10, v16, v20}
    -- Unit subframe
UE-DRX-Grant-Monitoring ::= BOOLEAN
    -- true: applied, false: not applied
UE-DTX-Cycle1-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
    -- Unit subframe
UE-DTX-Cycle1-10ms ::= ENUMERATED {v1, v5, v10, v20}
    -- Unit subframe
UE-DTX-Cycle2-2ms := ENUMERATED {v4, v5, v8, v10, v16, v20, v32, v40, v64, v80, v128, v160}
    -- Unit subframe
UE-DTX-Cycle2-10ms ::= ENUMERATED {v5, v10, v20, v40, v80, v160}
    -- Unit subframe
UE-DTX-DRX-Offset ::= INTEGER (0..159)
    -- Unit subframe
UE-DTX-Long-Preamble ::= ENUMERATED {v2, v4, v15}
    -- Units of slots
```

```
UL-CapacityCredit ::= INTEGER (0..65535)
UL-Delta-T2TP ::= INTEGER (0..6,...)
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}
UL-DPDCH-Indicator-For-E-DCH-Operation ::= ENUMERATED {
    ul-DPDCH-present,
    ul-DPDCH-not-present
}
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    . . .
}
UL-Timeslot-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
    tFCI-Presence
                                            TFCI-Presence,
    uL-Code-InformationList
                                            TDD-UL-Code-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
UL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeslotLCR-InformationItem
UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tFCI-Presence
                                            TFCI-Presence,
    uL-Code-InformationList
                                            TDD-UL-Code-LCR-Information,
                                            ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-PLCCH-Information-UL-TimeslotLCR-Info CRITICALITY reject
                                                                         EXTENSION PLCCHinformation
                                                                                                                      PRESENCE optional },
```

```
. . .
}
UL-Timeslot768-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot768-InformationItem
UL-Timeslot768-InformationItem ::= SEQUENCE {
    timeSlot
                                             TimeSlot,
    midambleShiftAndBurstType768
                                             MidambleShiftAndBurstType768,
    tFCI-Presence
                                             TFCI-Presence,
    uL-Code-InformationList
                                             TDD-UL-Code-768-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { UL-Timeslot768-InformationItem-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
٦
UL-Timeslot768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCCH-SlotFormat ::= INTEGER (0..5,...)
UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]
UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    . . .
}
UL-PhysCH-SF-Variation ::= ENUMERATED {
    sf-variation-supported,
    sf-variation-not-supported
}
UL-ScramblingCode ::= SEQUENCE {
    uL-ScramblingCodeNumber
                                     UL-ScramblingCodeNumber,
    uL-ScramblingCodeLength
                                     UL-ScramblingCodeLength,
    iE-Extensions
                                     ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
}
UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}
UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
    uL-Synchronisation-StepSize
                                         UL-Synchronisation-StepSize,
```

```
uL-Synchronisation-Frequency
                                        UL-Synchronisation-Frequency,
    iE-Extensions
                                        ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
UL-Synchronisation-Parameters-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UPPCHPositionLCR ::= INTEGER (0..127)
UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-TimeSlot-ISCP-InfoItem
UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    iSCP
                                    UL-TimeslotISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-TimeSlot-ISCP-LCR-Info ::= SEOUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeSlot-ISCP-LCR-InfoItem
UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    iSCP
                                    UL-TimeslotISCP-Value,
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UpPTSInterferenceValue ::= INTEGER (0..127,...)
Unidirectional-DCH-Indicator := ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
}
USCH-Information ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                            USCH-ID,
    cCTrCH-ID
                                            CCTrCH-ID,
                                                                 -- UL CCTrCH in which the USCH is mapped
    transportFormatSet
                                            TransportFormatSet, -- For USCH
```

```
allocationRetentionPriority
                                  AllocationRetentionPriority,
   iE-Extensions
                                  ProtocolExtensionContainer { { USCH-InformationItem-ExtIEs } }
                                                                                            OPTIONAL,
   . . .
USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-bindingID
                                                              BindingID
                                                                                                   optional }|
                                  CRITICALITY ignore
                                                     EXTENSION
                                                                                          PRESENCE
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-transportlayeraddress
                                  CRITICALITY ignore
                                                     EXTENSION
                                                              TransportLayerAddress
                                                                                          PRESENCE
                                                                                                   optional }|
   -- Shall be ignored if bearer establishment with ALCAP.
   { ID id-TnlQos
                                  CRITICALITY ignore
                                                              TnlQos PRESENCE optional
                                                                                          },
                                                     EXTENSION
   . . .
}
USCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem
USCH-InformationResponseItem ::= SEQUENCE {
   uSCH-ID
                                     USCH-ID,
   bindingID
                                     BindingID
                                                        OPTIONAL,
   transportLayerAddress
                                     TransportLayerAddress
                                                        OPTIONAL,
                                     ProtocolExtensionContainer { { USCH-InformationResponseItem-ExtIEs } }
   iE-Extensions
                                                                                              OPTIONAL.
   . . .
USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
UL-TimeslotISCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]
UL-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..126)
USCH-ID ::= INTEGER (0..255)
__ _____
- -
  -----
     _____
-- W
  _____
- -
  Х
__ _____
__ _____
- -
  v
  -----
  -----
- -
-- 7
```

END

}

```
9.3.5
       Common Definitions
  - -
- -
-- Common definitions
- -
NBAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
   - -
-- Extension constants
- -
INTEGER ::= 65535
maxPrivateIEs
maxProtocolExtensions
                     INTEGER ::= 65535
maxProtocolIEs
                     INTEGER ::= 65535
  - -
-- Common Data Types
- -
Criticality
           ::= ENUMERATED { reject, ignore, notify }
MessageDiscriminator
               ::= ENUMERATED { common, dedicated }
           ::= ENUMERATED { optional, conditional, mandatory }
Presence
PrivateIE-ID ::= CHOICE {
  local
                INTEGER (0..maxPrivateIEs),
  qlobal
                OBJECT IDENTIFIER
}
         ::= INTEGER (0..255)
ProcedureCode
ProcedureID
           ::= SEQUENCE {
  procedureCode
                   ProcedureCode,
  ddMode
                   ENUMERATED { tdd, fdd, common, ... }
```

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```
ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs)
TransactionID ::= CHOICE {
   shortTransActionId INTEGER (0..127),
   longTransActionId INTEGER (0..32767)
}
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome, outcome }
```

END

## 9.3.6 Constant Definitions

```
- -
-- Constant definitions
- -
  ******
NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   ProcedureCode,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
    _ _
-- Elementary Procedures
- -
id-audit
                                              ProcedureCode ::= 0
id-auditRequired
                                              ProcedureCode ::= 1
id-blockResource
                                              ProcedureCode ::= 2
id-cellDeletion
                                              ProcedureCode ::= 3
id-cellReconfiguration
                                              ProcedureCode ::= 4
id-cellSetup
                                              ProcedureCode ::= 5
id-cellSynchronisationInitiation
                                              ProcedureCode ::= 45
id-cellSynchronisationReconfiguration
                                              ProcedureCode ::= 46
id-cellSynchronisationReporting
                                              ProcedureCode ::= 47
id-cellSynchronisationTermination
                                              ProcedureCode ::= 48
id-cellSynchronisationFailure
                                              ProcedureCode ::= 49
id-commonMeasurementFailure
                                              ProcedureCode ::= 6
id-commonMeasurementInitiation
                                              ProcedureCode ::= 7
                                              ProcedureCode ::= 8
id-commonMeasurementReport
id-commonMeasurementTermination
                                              ProcedureCode ::= 9
```

id-commonTransportChannelDelete	ProcedureCode ::= 10
id-commonTransportChannelReconfigure	ProcedureCode ::= 11
- 5	ProcedureCode ::= 11 ProcedureCode ::= 12
id-commonTransportChannelSetup	ProcedureCode ::= 12 ProcedureCode ::= 14
id-compressedModeCommand	
id-dedicatedMeasurementFailure	ProcedureCode ::= 16
id-dedicatedMeasurementInitiation	ProcedureCode ::= 17
id-dedicatedMeasurementReport	ProcedureCode ::= 18
id-dedicatedMeasurementTermination	ProcedureCode ::= 19
id-downlinkPowerControl	ProcedureCode ::= 20
id-downlinkPowerTimeslotControl	ProcedureCode ::= 38
id-errorIndicationForCommon	ProcedureCode ::= 35
id-errorIndicationForDedicated	ProcedureCode ::= 21
id-informationExchangeFailure	ProcedureCode ::= 40
id-informationExchangeInitiation	ProcedureCode ::= 41
id-informationExchangeTermination	ProcedureCode ::= 42
id-informationReporting	ProcedureCode ::= 43
id-BearerRearrangement	ProcedureCode ::= 50
id-mBMSNotificationUpdate	ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration	ProcedureCode ::= 37
id-privateMessageForCommon	ProcedureCode ::= 36
id-privateMessageForDedicated	ProcedureCode ::= 22
id-radioLinkAddition	ProcedureCode ::= 23
id-radioLinkDeletion	ProcedureCode ::= 24
id-radioLinkFailure	ProcedureCode ::= 25
id-radioLinkPreemption	ProcedureCode ::= 39
id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-cellSynchronisationAdjustment	ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34
id-radioLinkActivation	ProcedureCode ::= 51
id-radioLinkParameterUpdate	ProcedureCode ::= 52
±	

#### 

- -

-- Lists - -

#### 

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLTSLCRs	INTEGER ::= 6
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2

maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsPerRL-1	INTEGER ::= 239 maxNrofCCTrCH*maxNrOfULTSs-1
maxNrOfDPCHLCRs	INTEGER ::= 240
maxNrOfDPCHsLCRPerRL-1	INTEGER ::= 95 maxNrofCCTrCH*maxNrOfULTSLCRs-1
maxNrOfDPCHs768	INTEGER ::= 480
maxNrOfDPCHs768PerRL-1	INTEGER ::= 479
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfSCCPCHsinExt	INTEGER ::= 232
maxNrOfSCCPCHs768	INTEGER ::= 480
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDSCHs	INTEGER ::= 32
maxNrOfFACHs	INTEGER ::= 8
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfHSPDSCHs	INTEGER ::= 16
maxNrOfHSPDSCHs768	INTEGER ::= 32
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPUSCHs-1	INTEGER ::= 255
maxNrOfPDSCHSets	INTEGER ::= 256
maxNrOfPRACHLCRs	INTEGER ::= 8
maxNrOfPUSCHSets	INTEGER ::= 256
maxNrOfSCCPCHLCRs	INTEGER ::= 8
maxNrOfSCCPCHsLCRinExt	INTEGER ::= 88
maxNrOfULTSs	INTEGER ::= 15
maxNrOfULTSLCRs	INTEGER ::= 6
maxNrOfUSCHs	INTEGER ::= 32
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellinNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCTFC	INTEGER ::= 16777215
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB
maxFPACHCell	INTEGER ::= 8
maxRACHCell	INTEGER ::= maxPRACHCell
maxPLCCHCell	INTEGER ::= 16
maxPRACHCell	INTEGER ::= 16
maxSCCPCHCell	INTEGER ::= 32
maxSCCPCHCellinExt	INTEGER ::= 208 maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR	INTEGER ::= 64 maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCCPCHCell768	INTEGER ::= 480
maxSCPICHCell	INTEGER ::= 32
maxTTI-count	INTEGER ::= 4
maxIBSEG	INTEGER ::= 16
maxIB	INTEGER ::= 64
maxFACHCell	INTEGER ::= 256 maxNrOfFACHs * maxSCCPCHCell
maxRateMatching	INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1	INTEGER ::= 15
maxHS-SCCHCodeNrComp-1	INTEGER ::= 127
maxNrOfCellSyncBursts	INTEGER ::= 10
maxNrOfReceptsPerSyncFrame	
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxNrOfSF	INTEGER ::= 8
maxTGPS	INTEGER ::= 6

ETSI

maxCommunicationContext INT	EGER ::= 1048575
	EGER ::= 256
	EGER ::= 16
	EGER ::= 8
	EGER ::= 32
	EGER ::= 4
	EGER ::= 3
-	EGER ::= 512
maxNrOfReceptionsperSyncFrameLC	
1	EGER ::= 32
maxNrOfHSSCCHCodes	INTEGER ::= 4
maxNrOfMACdFlows	INTEGER ::= 8
maxNrOfMACdFlows-1	INTEGER ::= 7 maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes	INTEGER ::= 8
maxNrOfMACdPDUIndexes-1	INTEGER ::= 7 maxNoOfMACdPDUIndexes - 1
maxNrOfMACdPDUSize	INTEGER ::= 32
maxNrOfNIs	INTEGER ::= 256
maxNrOfPriorityQueues	INTEGER ::= 8
maxNrOfPriorityQueues-1	INTEGER ::= 7 maxNoOfPriorityQueues - 1
maxNrOfHARQProcesses	INTEGER ::= 8
maxNrOfContextsOnUeList	INTEGER ::= 16
maxNrOfCellPortionsPerCell	INTEGER ::= 64
maxNrOfCellPortionsPerCell-1	INTEGER ::= 63
maxNrOfPriorityClasses	INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16 maxNrofSatAlmanac - maxNoSat
maxNrOfE-AGCHs	INTEGER ::= 32
maxNrOfEDCHMACdFlows	INTEGER ::= 8
maxNrOfEDCHMACdFlows-1	INTEGER ::= 7
maxNrOfE-RGCHs-E-HICHs	INTEGER ::= 32
maxNrOfEDCH-HARQ-PO-QUANTSTEPs	INTEGER ::= 6
maxNrOfEDCHHARQProcesses2msEDCH	INTEGER ::= 8
maxNrOfEDPCCH-PO-QUANTSTEPs	INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-schedu	led INTEGER ::= 19982
maxNrOfRefETFCIs	INTEGER ::= 8
maxNrOfRefETFCI-PO-QUANTSTEPs	INTEGER ::= 29
maxNrofSigSeqRGHI-1	INTEGER ::= 39
maxNoOfLogicalChannels	INTEGER ::= 16 only maximum 15 can be used
maxNrOfCombEDPDCH	INTEGER ::= 12
maxE-RUCCHCell	INTEGER ::= 16
maxNrOfEAGCHCodes	INTEGER ::= 4
maxNrOfRefBetas	INTEGER ::= 8
maxNrOfE-PUCHSlots	INTEGER ::= 13
maxNrOfEAGCHs	INTEGER ::= 32
maxNrOfHS-DSCH-TBSs-HS-SCCHless	INTEGER ::= 4
maxNrOfHS-DSCH-TBSs	INTEGER ::= 90
maxNrOfEHICHCodes	INTEGER ::= 4
maxNrOfE-PUCHSlotsLCR	INTEGER ::= 5
maxNrOfEPUCHcodes	INTEGER ::= 16
maxNrOfEHICHs	INTEGER ::= 32
maxNrOfCommonMACFlows	INTEGER ::= 8
maxNrOfCommonMACFlows-1	INTEGER ::= 7
maxNrOfPagingMACFlow	INTEGER ::= 4
maxNrOfPagingMACFlow-1	INTEGER ::= 3
maxNrOfcommonMACQueues	INTEGER ::= 8

maxNrOfpagingMACQueues	INTEGER	::=	8
maxNrOfHS-DSCHTBSsE-PCH	INTEGER	: :=	2
maxGANSSSat	INTEGER	: :=	64
maxNoGANSS	INTEGER	::=	8
maxSgnType	INTEGER	::=	8
maxFrequencyinCell	INTEGER	::=	12
maxFrequencyinCell-1	INTEGER	::=	11
maxHSDPAFrequency	INTEGER	::=	8
maxHSDPAFrequency-1	INTEGER	::=	7
maxNrOfHSSCCHsinExt	INTEGER	::=	224
maxGANSSSatAlmanac	INTEGER	::=	36
maxGANSSClockMod	INTEGER	::=	4
maxNrOfEDCHRLs	INTEGER	: :=	4
maxMBMSServiceSelect	INTEGER	::=	256

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-- IEs --

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id-AICH-Information	ProtocolIE-ID	::=	0
id-AICH-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	1
id-BCH-Information	ProtocolIE-ID	::=	7
id-BCH-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	8
id-BCCH-ModificationTime	ProtocolIE-ID	::=	9
id-BlockingPriorityIndicator	ProtocolIE-ID	::=	10
id-Cause	ProtocolIE-ID	::=	13
id-CCP-InformationItem-AuditRsp	ProtocolIE-ID	::=	14
id-CCP-InformationList-AuditRsp	ProtocolIE-ID	::=	15
id-CCP-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	16
id-Cell-InformationItem-AuditRsp	ProtocolIE-ID	::=	17
id-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	18
id-Cell-InformationList-AuditRsp	ProtocolIE-ID	::=	19
id-CellParameterID	ProtocolIE-ID	::=	23
id-CFN	ProtocolIE-ID	::=	24
id-C-ID	ProtocolIE-ID	::=	25
id-CommonMeasurementAccuracy	ProtocolIE-ID	::=	39
id-CommonMeasurementObjectType-CM-Rprt	ProtocolIE-ID	::=	31
id-CommonMeasurementObjectType-CM-Rqst	ProtocolIE-ID	::=	32
id-CommonMeasurementObjectType-CM-Rsp	ProtocolIE-ID	::=	33
id-CommonMeasurementType	ProtocolIE-ID	::=	34
id-CommonPhysicalChannelID	ProtocolIE-ID	::=	35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	ProtocolIE-ID	::=	36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	37
id-CommunicationControlPortID	ProtocolIE-ID	::=	40
id-ConfigurationGenerationID	ProtocolIE-ID	::=	43
id-CRNC-CommunicationContextID	ProtocolIE-ID	::=	44
id-CriticalityDiagnostics	ProtocolIE-ID	::=	45
id-DCHs-to-Add-FDD	ProtocolIE-ID	::=	48
id-DCH-AddList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	49
id-DCHs-to-Add-TDD	ProtocolIE-ID	::=	50
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID	::=	52

id-DCH-DeleteList-RL-ReconfPrepTDD ProtocolIE-ID ::= 53 id-DCH-DeleteList-RL-ReconfRqstFDD  $ProtocolTE-TD \cdot \cdot = 54$ ProtocolIE-ID ::= 55 id-DCH-DeleteList-RL-ReconfRostTDD id-DCH-FDD-Information ProtocolIE-ID ::= 56 id-DCH-TDD-Information ProtocolIE-ID ::= 57 id-DCH-InformationResponse ProtocolIE-ID ::= 59 id-FDD-DCHs-to-Modify ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 id-TDD-DCHs-to-Modify id-DCH-ModifyList-RL-ReconfRqstTDD ProtocolTE-TD := 65id-DCH-RearrangeList-Bearer-RearrangeInd ProtocolIE-ID ::= 135 id-DedicatedMeasurementObjectType-DM-Rprt ProtocolIE-ID ::= 67 id-DedicatedMeasurementObjectType-DM-Rqst ProtocolIE-ID ::= 68 id-DedicatedMeasurementObjectType-DM-Rsp ProtocolIE-ID ::= 69 id-DedicatedMeasurementType ProtocolIE-ID ::= 70 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD ProtocolIE-ID ::= 72 id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD  $ProtocolTE-TD \cdot \cdot = 73$ id-DL-CCTrCH-InformationList-RL-SetupRqstTDD ProtocolIE-ID ::= 76 id-DL-DPCH-InformationItem-RL-AdditionRgstTDD ProtocolIE-ID ::= 77 id-DL-DPCH-InformationList-RL-SetupRgstTDD ProtocolIE-ID ::= 79 id-DL-DPCH-Information-RL-ReconfPrepFDD ProtocolIE-ID ::= 81 id-DL-DPCH-Information-RL-ReconfRgstFDD ProtocolTE-TD := 82id-DL-DPCH-Information-RL-SetupRgstFDD ProtocolIE-ID ::= 83 id-DL-DPCH-TimingAdjustment ProtocolTE-TD := 21id-DL-ReferencePowerInformationItem-DL-PC-Rgst ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 id-DLReferencePower id-DLReferencePowerList-DL-PC-Rgst ProtocolIE-ID ::= 86 id-Unused-ProtocolIE-ID-87 ProtocolIE-ID ::= 87 id-Unused-ProtocolIE-ID-89 ProtocolIE-ID ::= 89 id-Unused-ProtocolIE-ID-91 ProtocolIE-ID ::= 91 id-Unused-ProtocolIE-ID-93 ProtocolIE-ID ::= 93 id-DSCHs-to-Add-TDD ProtocolIE-ID ::= 96 id-DSCH-Information-DeleteList-RL-ReconfPrepTDD ProtocolIE-ID ::= 98 id-DSCH-Information-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 100 id-DSCH-InformationResponse ProtocolIE-ID ::= 105 id-Unused-ProtocolIE-ID-106 ProtocolIE-ID ::= 106 id-DSCH-TDD-Information ProtocolIE-ID ::= 107 id-Unused-ProtocolIE-ID-108 ProtocolIE-ID ::= 108 id-Unused-ProtocolIE-ID-112 ProtocolIE-ID ::= 112 id-DSCH-RearrangeList-Bearer-RearrangeInd ProtocolIE-ID ::= 136 id-End-Of-Audit-Sequence-Indicator ProtocolIE-ID ::= 113 id-FACH-Information ProtocolIE-ID ::= 116 id-FACH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 117 id-FACH-ParametersList-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 120 id-FACH-ParametersListIE-CTCH-SetupRqstFDD ProtocolTE-TD := 121id-FACH-ParametersListIE-CTCH-SetupRostTDD ProtocolIE-ID ::= 122 id-IndicationTvpe-ResourceStatusInd ProtocolIE-ID ::= 123 id-Local-Cell-ID ProtocolIE-ID ::= 124 id-Local-Cell-Group-InformationItem-AuditRsp ProtocolIE-ID ::= 2 id-Local-Cell-Group-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 3 id-Local-Cell-Group-InformationItem2-ResourceStatusInd ProtocolIE-ID ::= 4 id-Local-Cell-Group-InformationList-AuditRsp ProtocolIE-ID ::= 5 id-Local-Cell-InformationItem-AuditRsp ProtocolIE-ID ::= 125 id-Local-Cell-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 126 id-Local-Cell-InformationItem2-ResourceStatusInd ProtocolIE-ID ::= 127

id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 166
id-PICH-Information	
id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType id-PRACH-Information	ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	
id-PrimaryCPICH-Information-Cell-SetupRqstFDD id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 179
id-PrimarySCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 180
id-DrimaryScramblingCode	
id-PrimaryScramblingCode id-SCH-Information-Cell-ReconfRastTDD	ProtocolIE-ID ::= 181
id-SCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183
id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184
id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185
id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186
id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187
id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 196
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstTDD</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 197
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstTDD id-ReportCharacteristics</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD id-RACH-ParameterItem-CTCH-SetupRqstTDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD id-RACH-ParameterItem-CTCH-SetupRqstTDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD id-RACH-ParameterItem-CTCH-SetupRqstFDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RL-InformationItem-DM-Rprt</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 202
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD id-RACH-ParameterItem-CTCH-SetupRqstTDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rqst</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 202 ProtocolIE-ID ::= 203
<pre>id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRqstFDD id-RACH-ParameterItem-CTCH-SetupRqstFDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RL-InformationItem-DM-Rprt</pre>	ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 186 ProtocolIE-ID ::= 187 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 196 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 202

id-RL-informationItem-RL-DeletionRqst	ProtocolIE-ID ::= 206
id-RL-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 207
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID ::= 286
id-RL-InformationItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID ::= 213
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRqstFDD	ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-ReconfReady	ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 226
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-SignallingBearerRequestIndicator	ProtocolIE-ID ::= 138
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespitem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
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id-T-Cell	ProtocolIE-ID ::= 276
id-TargetCommunicationControlPortID	ProtocolIE-ID ::= 139
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-USCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 141
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-Not-Used-320	ProtocolIE-ID ::= 320
id-Not-Used-322	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailure	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-Not-Used-330	ProtocolIE-ID ::= 330
id-Not-Used-332	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-Not-Used-336	ProtocolIE-ID ::= 336
id-Not-Used-342	ProtocolIE-ID ::= 342
id-Not-Used-343	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 352
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id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 358
id-DPC-Mode	ProtocolIE-ID ::= 450
id-DPCHConstant	ProtocolIE-ID ::= 359
id-Unused-ProtocolIE-ID-94	ProtocolIE-ID ::= 94
id-Unused-ProtocolIE-ID-110	ProtocolIE-ID ::= 110
id-Unused-ProtocolIE-ID-111	ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 375
id-Not-Used-376	ProtocolIE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380
id-PRACHConstant	ProtocolIE-ID ::= 381
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 383
id-PUSCHConstant	ProtocolIE-ID ::= 384
id-RACH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 385
id-Unused-ProtocolIE-ID-443	ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst	ProtocolIE-ID ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414
id-ResetIndicator	ProtocolIE-ID ::= 416
id-Unused-ProtocolIE-ID-417	ProtocolIE-ID ::= 417
id-Unused-ProtocolIE-ID-418	ProtocolIE-ID ::= 418
id-Unused-ProtocolIE-ID-419	ProtocolIE-ID ::= 419
id-Unused-ProtocolIE-ID-142	ProtocolIE-ID ::= 142
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfo	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420

id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423
${\tt id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD}$	ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429
id-CSBTransmissionID	ProtocolIE-ID ::= 430
id-CSBMeasurementID	ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
id-SyncFrameNumber	ProtocolIE-ID ::= 437
id-SynchronisationReportType	ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 119
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436
id-InformationExchangeID	ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID ::= 445
id-InformationType	ProtocolIE-ID ::= 446
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID ::= 448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID ::= 449
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 451
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 452
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 453
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 453
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 434 ProtocolIE-ID ::= 74
id-Du-Du-Luck-Information	ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 78
id-DwPCH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 97
id-DwPCH-LCR-Information-Cell-SetupRqstTDD	
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 99
id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID ::= 101
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 154
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 174
id-FPACH-LCR-Information	ProtocolIE-ID ::= 290
id-FPACH-LCR-Information-AuditRsp	ProtocolIE-ID ::= 292
id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID ::= 22
id-FPACH-LCR-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 311
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 312
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 314
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 456
id-PCH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 457
id-PCH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 458
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 459
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 461
id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID ::= 463
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 465

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id-TimeSlot	ProtocolIE-ID ::= 495 ProtocolIE-ID ::= 466
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 466 ProtocolIE-ID ::= 467
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD	ProtocolIE-ID ::= 467 ProtocolIE-ID ::= 468
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD	ProtocolIE-ID ::= 468 ProtocolIE-ID ::= 469
id-TimeSlotLCR-CM-Rqst	
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 470
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 472
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 473
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 474
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 475
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 477
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 479
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD	ProtocolIE-ID ::= 480
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 481
id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::= 483
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 485
id-UL-SIRTarget	ProtocolIE-ID ::= 510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 487
id-Unused-ProtocolIE-ID-26	ProtocolIE-ID ::= 26
id-Unused-ProtocolIE-ID-27	ProtocolIE-ID ::= 27
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497
id-Power-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 498
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 499
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 500
id-Power-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 501
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 502
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd	ProtocolIE-ID ::= 503
id-Power-Local-Cell-Group-ID	ProtocolIE-ID ::= 504
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp	ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507
id-InitDL-Power	ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification	ProtocolIE-ID ::= 512
id-SFNSFNMeasurementValueInformation	ProtocolIE-ID ::= 513
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID ::= 51
id-DL-PowerBalancing-Information	ProtocolIE-ID ::= 28
id-DL-PowerBalancing-ActivationIndicator	ProtocolIE-ID ::= 29
id-DL-PowerBalancing-UpdatedIndicator	ProtocolIE-ID ::= 30
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 517
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 518
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD	ProtocolIE-ID ::= 519

id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD	ProtocolIE-ID ::= 41
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 42
id-HS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst	ProtocolIE-ID ::= 522
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst	ProtocolIE-ID ::= 523
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 524
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 525
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 526
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 527
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 528
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 529
id-bindingID	ProtocolIE-ID ::= 102
id-RL-Specific-DCH-Info	ProtocolIE-ID ::= 103
id-transportlayeraddress	ProtocolIE-ID ::= 104
id-DelayedActivation	ProtocolIE-ID ::= 231
id-DelayedActivationList-RL-ActivationCmdFDD	ProtocolIE-ID ::= 232
id-DelayedActivationInformation-RL-ActivationCmdFDD	ProtocolIE-ID ::= 233
id-DelayedActivationList-RL-ActivationCmdTDD	ProtocolIE-ID ::= 234
id-DelayedActivationInformation-RL-ActivationCmdTDD	ProtocolIE-ID ::= 235
id-neighbouringTDDCellMeasurementInformationLCR	ProtocolIE-ID ::= 58
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 543
id-SYNCDlCodeId-Hanshillack-CellSyncInitiationRqstDD	ProtocolIE-ID ::= 544
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 545
	ProtocolIE-ID ::= 546
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 546 ProtocolIE-ID ::= 547
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD	
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD	ProtocolIE-ID ::= 548
id-SyncDLCodeIdThreInfoLCR	ProtocolIE-ID ::= 549
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 550
id-DwPCH-Power	ProtocolIE-ID ::= 551
id-AccumulatedClockupdate-CellSyncReprtTDD	ProtocolIE-ID ::= 552
id-Angle-Of-Arrival-Value-LCR	ProtocolIE-ID ::= 521
id-HSDSCH-FDD-Information	ProtocolIE-ID ::= 530
id-HSDSCH-FDD-Information-Response	ProtocolIE-ID ::= 531
id-HSDSCH-Information-to-Modify	ProtocolIE-ID ::= 534
id-HSDSCH-RNTI	ProtocolIE-ID ::= 535
id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 536
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 537
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD	ProtocolIE-ID ::= 542
id-Unused-ProtocolIE-ID-64	ProtocolIE-ID ::= 64
id-PDSCH-RL-ID	ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 554
id-HSDSCH-FDD-Update-Information	ProtocolIE-ID ::= 555
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 556
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 566
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 567

id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 568	
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 569	
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 570	
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 571	
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572	
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 573	
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 574	
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 575	
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 576	
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 577	
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 578	
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 579	
id-Initial-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 580	
id-Maximum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 581	
id-Minimum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 582	
id-HS-DSCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 583	
id-HS-DSCHRequiredPowerValueInformation	ProtocolIE-ID ::= 585	
id-HS-DSCHRequiredPowerValue	ProtocolIE-ID ::= 586	
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission	ProtocolIE-ID ::= 587	
id-HS-SICH-Reception-Quality	ProtocolIE-ID ::= 588	
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 589	
id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 590	
id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 591	
id-HSSICH-Info-DM-Rsp	ProtocolIE-ID ::= 592	
id-Best-Cell-Portions-Value	ProtocolIE-ID ::= 593	
id-Primary-CPICH-Usage-for-Channel-Estimation	ProtocolIE-ID ::= 594	
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 595	
id-NumberOfReportedCellPortions	ProtocolIE-ID ::= 596	
id-CellPortion-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 597	
id-CellPortion-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 598	
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 599	
id-Secondary-CPICH-Information	ProtocolIE-ID ::= 600	
id-Received-total-wide-band-power-For-CellPortion	ProtocolIE-ID ::= 601	
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 602	
id-TimingAdjustmentValueLCR	ProtocolIE-ID ::= 603	
id-multipleRL-dl-DPCH-InformationList	ProtocolIE-ID ::= 604	
id-multipleRL-dl-DPCH-InformationModifyList	ProtocolIE-ID ::= 605	
id-multipleRL-ul-DPCH-InformationList	ProtocolIE-ID ::= 606	
id-multipleRL-ul-DPCH-InformationModifyList	ProtocolIE-ID ::= 607	
id-RL-ID	ProtocolIE-ID ::= 608	
id-SAT-Info-Almanac-ExtItem	ProtocolIE-ID ::= 609	
id-HSDPA-Capability	ProtocolIE-ID ::= 610	
id-HSDSCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 611	
id-HSDSCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 612	
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 613	
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 614	
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 615	
id-TnlQos	ProtocolIE-ID ::= 616	
id-Received-total-wide-band-power-For-CellPortion-Value	ProtocolIE-ID ::= 617	
id-Transmitted-Carrier-Power-For-CellPortion	ProtocolIE-ID ::= 618	
id-Transmitted-Carrier-Power-For-CellPortion-Value	ProtocolIE-ID ::= 619	
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AC	GCH-E-RGCHOrE-HICHTransmissionCellPortion	ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AC	GCH-E-RGCHOrE-HICHTransmissionCellPortionValue	ProtocolIE-ID ::= 621
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 622	

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id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 623
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 626
id-Tstd-indicator	ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 629
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 630
id-F-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 631
id-F-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 632
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 633
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 634
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 636
id-MICH-CFN	ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp	ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd	ProtocolIE-ID ::= 639
id-MICH-Parameters-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 640
id-MICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 641
id-MICH-Parameters-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 642
id-MICH-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 643
id-Modification-Period	ProtocolIE-ID ::= 644
id-NI-Information-NotifUpdateCmd	ProtocolIE-ID ::= 645
id-S-CCPCH-InformationListExt-AuditRsp	ProtocolIE-ID ::= 646
id-S-CCPCH-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 647
id-S-CCPCH-LCR-InformationListExt-AuditRsp	ProtocolIE-ID ::= 648
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 649
id-HARO-Preamble-Mode	ProtocolIE-ID ::= 650
id-Initial-DL-DPCH-TimingAdjustment	ProtocolIE-ID ::= 651
id-Initial-DL-DPCH-TimingAdjustment-Allowed	ProtocolIE-ID ::= 652
id-DLTransmissionBranchLoadValue	ProtocolIE-ID ::= 653
id-Power-Local-Cell-Group-choice-CM-Rqst	ProtocolIE-ID ::= 654
id-Power-Local-Cell-Group-choice-CM-Rsp	ProtocolIE-ID ::= 655
id-Power-Local-Cell-Group-choice-CM-Rprt	ProtocolIE-ID ::= 656
id-SynchronisationIndicator	ProtocolIE-ID ::= 657
id-HSDPA-And-EDCH-CellPortion-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 658
id-Unused-ProtocolIE-ID-659	ProtocolIE-ID ::= 659
id-HS-DSCHRequiredPowerValue-For-Cell-Portion	ProtocolIE-ID ::= 660
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion	ProtocolIE-ID ::= 661
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion	ProtocolIE-ID ::= 662
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code	ProtocolIE-ID ::= 663
id-E-AGCH-FDD-Code-Information	ProtocolIE-ID ::= 664
id-E-DCH-Capability	ProtocolIE-ID ::= 665
id-E-DCH-FDD-DL-Control-Channel-Information	ProtocolIE-ID ::= 666
id-E-DCH-FDD-Information	ProtocolIE-ID ::= 667
id-E-DCH-FDD-Information-Response	ProtocolIE-ID ::= 668
id-E-DCH-FDD-Information-to-Modify	ProtocolIE-ID ::= 669
id-E-DCH-MACdFlows-to-Add	ProtocolIE-ID ::= 670
id-E-DCH-MACdFlows-to-Add id-E-DCH-MACdFlows-to-Delete	ProtocollE-ID ::= 670 ProtocollE-ID ::= 671
id-E-DCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 672
id-E-DCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 673
id-E-DCH-RL-Indication	ProtocolIE-ID ::= 674
id-E-DCH-RL-Set-ID	ProtocolIE-ID ::= 675
id-E-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 676

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id-E-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 677
id-E-RGCH-E-HICH-FDD-Code-Information	ProtocolIE-ID ::= 678
id-Serving-E-DCH-RL-ID	ProtocolIE-ID ::= 679 ProtocolIE-ID ::= 680
id-UL-DPDCH-Indicator-For-E-DCH-Operation	
id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 681
id-E-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 682
id-Maximum-Target-ReceivedTotalWideBandPower	ProtocolIE-ID ::= 683
id-E-DCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 684
id-HARQ-Preamble-Mode-Activation-Indicator	ProtocolIE-ID ::= 685
id-RL-Specific-E-DCH-Info	ProtocolIE-ID ::= 686
id-E-DCH-CapacityConsumptionLaw	ProtocolIE-ID ::= 687
id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp	ProtocolIE-ID ::= 688
id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp	ProtocolIE-ID ::= 689
id-E-DCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 690
id-Unused-ProtocolIE-ID-691	ProtocolIE-ID ::= 691
id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 692
id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio	ProtocolIE-ID ::= 693
id-CellPortion-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 694
id-CellPortion-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 695
id-multiple-PUSCH-InfoList-DM-Rsp	ProtocolIE-ID ::= 696
id-multiple-PUSCH-InfoList-DM-Rprt	ProtocolIE-ID ::= 697
id-Reference-ReceivedTotalWideBandPower	ProtocolIE-ID ::= 698
id-E-DCH-Serving-Cell-Change-Info-Response	ProtocolIE-ID ::= 699
id-HS-DSCH-Serving-Cell-Change-Info	ProtocolIE-ID ::= 700
id-HS-DSCH-Serving-Cell-Change-Info-Response	ProtocolIE-ID ::= 701
id-Serving-Cell-Change-CFN	ProtocolIE-ID ::= 702
id-E-DCH-HARQ-Combining-Capability	ProtocolIE-ID ::= 703
id-E-DCH-TTI2ms-Capability	ProtocolIE-ID ::= 704
id-E-DCH-SF-Capability	ProtocolIE-ID ::= 705
id-E-DCH-FDD-Update-Information	ProtocolIE-ID ::= 706
id-F-DPCH-Capability	ProtocolIE-ID ::= 707
id-E-DCH-Non-serving-Relative-Grant-Down-CommandsValue	ProtocolIE-ID ::= 708
id-HSSICH-SIRTarget	ProtocolIE-ID ::= 709
id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp	ProtocolIE-ID ::= 710
id-PLCCH-Information-AuditRsp	ProtocolIE-ID ::= 711
id-PLCCH-Information-ResourceStatusInd	ProtocolIE-ID ::= 712
id-PLCCH-Information-RL-ReconfPrepTDDLCR	ProtocolIE-ID ::= 713
id-PLCCH-Information-UL-TimeslotLCR-Info	ProtocolIE-ID ::= 714
id-PLCCH-InformationList-AuditRsp	ProtocolIE-ID ::= 715
id-PLCCH-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 716
id-PLCCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 717
id-S-CCPCH-768-Parameters-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 718
id-PICH-768-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 719
id-PRACH-768-Parameters-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 720
id-S-CCPCH-768-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 721
id-PICH-768-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 722
id-MICH-768-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 723
id-CommonPhysicalChannelID768-CommonTrChDeletionReq	ProtocolIE-ID ::= 724
id-S-CCPCH-768-InformationList-AuditRsp	ProtocolIE-ID ::= 725
id-S-CCPCH-768-Information-AuditRsp	ProtocolIE-ID ::= 726
id-neighbouringTDDCellMeasurementInformation768	ProtocolIE-ID ::= 727
id-PCCPCH-768-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 728
id-SCH-768-Information-Cell-SetupRqstTDD	ProtocolIE-ID ::= 729
id-SCH-768-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 729
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id-PCCPCH-768-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 731
id-P-CCPCH-768-Information-AuditRsp	ProtocolIE-ID ::= 732
id-PICH-768-Information-AuditRsp	ProtocolIE-ID ::= 733
id-PRACH-768-InformationList-AuditRsp	ProtocolIE-ID ::= 734
id-SCH-768-Information-AuditRsp	ProtocolIE-ID ::= 735
id-MICH-768-Information-AuditRsp	ProtocolIE-ID ::= 736
id-PRACH-768-Information	ProtocolIE-ID ::= 737
id-S-CCPCH-768-Information-ResourceStatusInd	ProtocolIE-ID ::= 738
id-P-CCPCH-768-Information-ResourceStatusInd	ProtocolIE-ID ::= 739
id-PICH-768-Information-ResourceStatusInd	ProtocolIE-ID ::= 740
id-PRACH-768-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 741
id-SCH-768-Information-ResourceStatusInd	ProtocolIE-ID ::= 742
id-MICH-768-Information-ResourceStatusInd	ProtocolIE-ID ::= 743
id-S-CCPCH-768-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 744
id-UL-DPCH-768-Information-RL-SetupRgstTDD	ProtocolIE-ID ::= 745
id-DL-DPCH-768-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 746
id-DL-DPCH-InformationItem-768-RL-AdditionRgstTDD	ProtocolIE-ID ::= 747
id-UL-DPCH-InformationItem-768-RL-AdditionRgstTDD	ProtocolIE-ID ::= 748
id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 749
id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 750
id-UL-DPCH-768-InformationModify-AddItem	ProtocolIE-ID ::= 751
id-UL-DPCH-768-InformationModify-AddList	ProtocolIE-ID ::= 752
id-UL-Timeslot768-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 753
id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 754
id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 755
id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 756
id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 757
id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 758
id-DD-TimesIot-708-InformationModify-ModifyBist-KD-Keconfflepibb	ProtocolIE-ID ::= 759
id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp	ProtocolIE-ID ::= 760
id-DPCH-ID768-DM-Rsp	ProtocolIE-ID ::= 760
id-Rx-Timing-Deviation-Value-768	ProtocolIE-ID ::= 761
id-DPCH-ID768-DM-Rprt	ProtocolIE-ID ::= 762 ProtocolIE-ID ::= 763
	ProtocolIE-ID ::= 763
id-PDSCH-AddInformation-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 764 ProtocolIE-ID ::= 765
id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst	
id-PUSCH-AddInformation-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 766
id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 767
id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 768
id-hS-SCCH-Information-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 769
id-hS-SCCH-InformationModify-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 770
id-hsSCCH-Specific-Information-ResponseTDD768	ProtocolIE-ID ::= 771
id-E-DPCH-Information-RL-AdditionReqFDD	ProtocolIE-ID ::= 772
id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR	ProtocolIE-ID ::= 775
id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR	ProtocolIE-ID ::= 780
id-E-DCH-PowerOffset-for-SchedulingInfo	ProtocolIE-ID ::= 782
id-HSDSCH-Configured-Indicator	ProtocolIE-ID ::= 783
id-Rx-Timing-Deviation-Value-384-ext	ProtocolIE-ID ::= 786
id-RTWP-ReportingIndicator	ProtocolIE-ID ::= 787
id-RTWP-CellPortion-ReportingIndicator	ProtocolIE-ID ::= 788
id-Received-Scheduled-EDCH-Power-Share-Value	ProtocolIE-ID ::= 789
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value	ProtocolIE-ID ::= 790
id-Received-Scheduled-EDCH-Power-Share	ProtocolIE-ID ::= 791
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion	ProtocolIE-ID ::= 792
id-tFCI-Presence	ProtocolIE-ID ::= 793

id-HSSICH-TPC-StepSize	ProtocolIE-ID ::= 794
id-E-RUCCH-InformationList-AuditRsp	ProtocolIE-ID ::= 795
id-E-RUCCH-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 796
id-E-DCH-TDD-CapacityConsumptionLaw	ProtocolIE-ID ::= 797
id-E-RUCCH-Information	ProtocolIE-ID ::= 798
id-E-DCH-Information	ProtocolIE-ID ::= 799
id-E-DCH-Information-Response	ProtocolIE-ID ::= 800
id-E-DCH-Information-Reconfig	ProtocolIE-ID ::= 801
id-E-PUCH-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 802
id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 803
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 804
id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 805
id-E-HICH-Information-PSCH-ReconfRqst	ProtocolIE-ID ::= 806
id-E-HICH-TimeOffset	ProtocolIE-ID ::= 807
id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells	ProtocolIE-ID ::= 808
id-E-DCH-Serving-RL-ID	ProtocolIE-ID ::= 809
id-E-RUCCH-768-InformationList-AuditRsp	ProtocolIE-ID ::= 810
id-E-RUCCH-768-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 811
id-E-RUCCH-768-Information	ProtocolIE-ID ::= 812
id-E-DCH-768-Information	ProtocolIE-ID ::= 813
id-E-DCH-768-Information-Reconfig	ProtocolIE-ID ::= 814
id-E-PUCH-Information-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 815
id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 816
id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 817
id-E-HICH-Information-768-PSCH-ReconfRqst	ProtocolIE-ID ::= 818
id-ExtendedPropagationDelay	ProtocolIE-ID ::= 819
id-Extended-Round-Trip-Time-Value	ProtocolIE-ID ::= 820
id-AlternativeFormatReportingIndicator	ProtocolIE-ID ::= 821
id-DCH-Indicator-For-E-DCH-HSDPA-Operation	ProtocolIE-ID ::= 822
id-Reference-ReceivedTotalWideBandPowerReporting	ProtocolIE-ID ::= 823
id-Reference-ReceivedTotalWideBandPowerSupportIndicator	ProtocolIE-ID ::= 824
id-ueCapability-Info	ProtocolIE-ID ::= 825
id-MAChs-ResetIndicator	ProtocolIE-ID ::= 826
id-Fast-Reconfiguration-Mode	ProtocolIE-ID ::= 827
id-Fast-Reconfiguration-Permission	ProtocolIE-ID ::= 828
id-BroadcastReference	ProtocolIE-ID ::= 829
id-BroadcastCommonTransportBearerIndication	ProtocolIE-ID ::= 830
id-ContinuousPacketConnectivityDTX-DRX-Capability	ProtocolIE-ID ::= 831
id-ContinuousPacketConnectivityDTX-DRX-Information	ProtocolIE-ID ::= 832
id-ContinuousPacketConnectivityHS-SCCH-less-Capability	ProtocolIE-ID ::= 833
id-ContinuousPacketConnectivityHS-SCCH-less-Information	ProtocolIE-ID ::= 834
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response	ProtocolIE-ID ::= 835
id-CPC-Information	ProtocolIE-ID ::= 836
id-MIMO-Capability	ProtocolIE-ID ::= 837
id-MIMO-PilotConfiguration	ProtocolIE-ID ::= 838
id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD	ProtocolIE-ID ::= 841
id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 842
id-S-CCPCH-Modulation	ProtocolIE-ID ::= 843
id-HS-PDSCH-Code-Change-Grant	ProtocolIE-ID ::= 844
id-HS-PDSCH-Code-Change-Indicator	ProtocolIE-ID ::= 845
id-SYNC-UL-Partition-LCR	ProtocolIE-ID ::= 845
id-E-DCH-LCR-Information	ProtocolIE-ID ::= 848
id-E-DCH-LCR-Information-Reconfig	ProtocolIE-ID ::= 847 ProtocolIE-ID ::= 848
id-E-PUCH-Information-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 848 ProtocolIE-ID ::= 852
TA-P-LOCH-THIOTHALIOH-DCK-LOCHTVAPC	FICCOCOTIE-ID ::= 052

id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 853
id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 854
id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 855
id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 856
id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst	ProtocolIE-ID ::= 857
id-E-HICH-TimeOffsetLCR	ProtocolIE-ID ::= 858
id-SixtyfourQAM-DL-Capability	ProtocolIE-ID ::= 860
id-SixteenQAM-UL-Capability	ProtocolIE-ID ::= 861
id-HSDSCH-MACdPDU-SizeCapability	ProtocolIE-ID ::= 864
id-HSDSCH-MACdPDUSizeFormat	ProtocolIE-ID ::= 865
id-MaximumMACdPDU-SizeExtended	ProtocolIE-ID ::= 866
id-F-DPCH-SlotFormat	ProtocolIE-ID ::= 870
id-F-DPCH-SlotFormatCapability	ProtocolIE-ID ::= 871
id-LCRTDD-uplink-Physical-Channel-Capability	ProtocolIE-ID ::= 872
id-Extended-RNC-ID	ProtocolIE-ID ::= 873
id-Max-UE-DTX-Cycle	ProtocolIE-ID ::= 874
id-Secondary-CCPCH-SlotFormat-Extended	ProtocolIE-ID ::= 876
id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR	ProtocolIE-ID ::= 878
id-MBSFN-Only-Mode-Capability	ProtocolIE-ID ::= 879
id-Time-Slot-Parameter-ID	ProtocolIE-ID ::= 880
id-Additional-failed-HS-SICH	ProtocolIE-ID ::= 881
id-Additional-missed-HS-SICH	ProtocolIE-ID ::= 882
id-Additional-total-HS-SICH	ProtocolIE-ID ::= 883
id-Additional-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 884
id-GANSS-Common-Data	ProtocolIE-ID ::= 887
id-GANSS-Information	ProtocolIE-ID ::= 888
id-GANSS-Generic-Data	ProtocolIE-ID ::= 889
id-TUTRANGANSSMeasurementThresholdInformation	ProtocolIE-ID ::= 890
id-TUTRANGANSSMeasurementValueInformation	ProtocolIE-ID ::= 891
id-ModulationPO-MBSFN	ProtocolIE-ID ::= 892
id-Enhanced-FACH-Capability	ProtocolIE-ID ::= 895
id-Enhanced-PCH-Capability	ProtocolIE-ID ::= 896
id-HSDSCH-Common-System-InformationFDD	ProtocolIE-ID ::= 897
id-HSDSCH-Common-System-Information-ResponseFDD	ProtocolIE-ID ::= 898
id-HSDSCH-Paging-System-InformationFDD	ProtocolIE-ID ::= 899
id-HSDSCH-Paging-System-Information-ResponseFDD	ProtocolIE-ID ::= 900
id-MBMS-Capability	ProtocolIE-ID ::= 901
id-Ext-Reference-E-TFCI-PO	ProtocolIE-ID ::= 902
id-Ext-Max-Bits-MACe-PDU-non-scheduled	ProtocolIE-ID ::= 903
id-HARO-MemoryPartitioningInfoExtForMIMO	ProtocolIE-ID ::= 904
id-MIMO-ActivationIndicator	ProtocolIE-ID ::= 905
id-MIMO-Mode-Indicator	ProtocolIE-ID ::= 906
id-MIMO-N-M-Ratio	ProtocolIE-ID ::= 907
id-IPMulticastIndication	ProtocolIE-ID ::= 908
id-IPMulticastDataBearerIndication	ProtocolIE-ID ::= 909
id-TransportBearerNotSetupIndicator	ProtocolIE-ID ::= 910
id-TransportBearerNotRequestedIndicator	ProtocolIE-ID ::= 911
id-TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 911 ProtocolIE-ID ::= 912
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp	ProtocolIE-ID ::= 912 ProtocolIE-ID ::= 913
id-Cell-Frequency-List-InformationItem-LCR-Mulfreq-AuditRsp	ProtocollE-ID ::= 913 ProtocollE-ID ::= 914
id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD	ProtocolIE-ID ::= 915
id-UARFCN-Adjustment	ProtocolIE-ID ::= 916
id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd	d ProtocolIE-ID ::= 917

id-UPPCHPositionLCR	ProtocolIE-ID ::= 919
id-UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 920
E E	ProtocolIE-ID ::= 921
id-UPPCH-LCR-InformationItem-AuditRsp	ProtocolIE-ID ::= 922
	ProtocolIE-ID ::= 923
id-UPPCH-LCR-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 924
id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst	
id-number-Of-Supported-Carriers	ProtocolIE-ID ::= 926
id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLCR	ProtocolIE-ID ::= 927
id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 928
	ProtocolIE-ID ::= 929
id-multipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 930
id-UARFCNSpecificCauseList	ProtocolIE-ID ::= 931
id-tSN-Length	ProtocolIE-ID ::= 932
id-MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-Reconf	Rqst ProtocolIE-ID ::= 933
id-multicarrier-number	ProtocolIE-ID ::= 934
id-Extended-HS-SCCH-ID	ProtocolIE-ID ::= 935
id-Extended-HS-SICH-ID	ProtocolIE-ID ::= 936
id-HSSICH-InfoExt-DM-Rqst	ProtocolIE-ID ::= 937
id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst	ProtocolIE-ID ::= 938
id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 939
id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 940
	ProtocolIE-ID ::= 941
id-MBSFN-SpecialTimeSlot-LCR	ProtocolIE-ID ::= 942
id-Common-MACFlows-to-DeleteFDD	ProtocolIE-ID ::= 943
id-Paging-MACFlows-to-DeleteFDD	ProtocolIE-ID ::= 944
5 5	ProtocolIE-ID ::= 945
	ProtocolIE-ID ::= 946
	ProtocolIE-ID ::= 947
· · ·	ProtocolIE-ID ::= 948
id-Default-Serving-Grant-in-DTX-Cycle2	ProtocolIE-ID ::= 949
	ProtocolIE-ID ::= 950
id-E-DPDCH-PowerInterpolation	ProtocolIE-ID ::= 951
id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory	ProtocolIE-ID ::= 952
id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp	ProtocolIE-ID ::= 953
id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd	ProtocolIE-ID ::= 954
id-MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst	
id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst	
id-Extended-E-HICH-ID-TDD	ProtocolIE-ID ::= 956 ProtocolIE-ID ::= 957
1	ProtocolIE-ID ::= 958
id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD	ProtocolIE-ID ::= 961
id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCRTDD	ProtocolIE-ID ::= 962
id-E-HICH-TimeOffset-Extension	ProtocolIE-ID ::= 963
id-MultipleFreq-E-HICH-TimeOffsetLCR	ProtocolIE-ID ::= 964
id-E-PUCH-PowerControlGAP	ProtocolIE-ID ::= 965
id-HSDSCH-TBSizeTableIndicator	ProtocolIE-ID ::= 966
	ProtocolIE-ID ::= 967
id-E-DCH-DL-Control-Channel-Grant-Information	ProtocolIE-ID ::= 968
	ProtocolIE-ID ::= 969
	ProtocolIE-ID ::= 971
id-AdditionalMeasurementValueList	ProtocolIE-ID ::= 972
	ProtocolIE-ID ::= 978
id-PLCCH-parameters	ProtocolIE-ID ::= 981
id-E-RUCCH-parameters	ProtocolIE-ID ::= 982

id-E-RUCCH-768-parameters	ProtocolIE-ID ::= 983
id-HS-Cause	ProtocolIE-ID ::= 984
id-E-Cause	ProtocolIE-ID ::= 985
id-TransportBearerRequestIndicator	ProtocolIE-ID ::= 996
id-E-DPCCH-Power-Boosting-Capability	ProtocolIE-ID ::= 1020
id-MACes-Maximum-Bitrate-LCR	ProtocolIE-ID ::= 1046
id-UE-Selected-MBMS-Service-Information	ProtocolIE-ID ::= 1074
id-MultiCarrier-HSDSCH-Physical-Layer-Category	ProtocolIE-ID ::= 1077
id-TimeSlotMeasurementValueListLCR	ProtocolIE-ID ::= 1082
id-MIMO-Power-Offset-For-S-CPICH-Capability	ProtocolIE-ID ::= 1101
id-MIMO-PilotConfigurationExtension	ProtocolIE-ID ::= 1102
id-TxDiversityOnDLControlChannelsByMIMOUECapability	ProtocolIE-ID ::= 1103
id-PrecodingWeightSetRestriction	ProtocolIE-ID ::= 1171

END

## 9.3.7 Container Definitions

************************************
 Container definitions 
<pre>NBAP-Containers {   itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)   umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Containers (5) }</pre>
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
***********************************
IMPORTS maxProtocolExtensions, maxPrivateIEs, maxProtocolIEs, Criticality, Presence, PrivateIE-ID, ProtocolIE-ID
FROM NBAP-CommonDataTypes;
************************************
Class Definition for Protocol IEs

```
NBAP-PROTOCOL-IES ::= CLASS {
  &id
        ProtocolIE-ID
                         UNIQUE,
  &criticality Criticality,
  &Value,
  &presence Presence
}
WITH SYNTAX {
  ID &id
  CRITICALITY & criticality
           &Value
  TYPE
  PRESENCE &presence
}
  *****
_ _
- -
-- Class Definition for Protocol IEs
- -
NBAP-PROTOCOL-IES-PAIR ::= CLASS {
  &id
           ProtocolIE-ID
                            UNIQUE,
  &firstCriticality Criticality,
  &FirstValue,
  &secondCriticality Criticality,
  &SecondValue,
  &presence
              Presence
}
WITH SYNTAX {
  ID
           &id
  FIRST CRITICALITY & firstCriticality
  FIRST TYPE
              &FirstValue
  SECOND CRITICALITY &secondCriticality
  SECOND TYPE &SecondValue
  PRESENCE
              &presence
}
- -
-- Class Definition for Protocol Extensions
_ _
NBAP-PROTOCOL-EXTENSION ::= CLASS {
  &id
        ProtocolIE-ID
                      UNIOUE,
  &criticality Criticality,
  &Extension,
  &presence
              Presence
}
WITH SYNTAX {
  ID &id
  CRITICALITY & criticality
```

```
EXTENSION
            &Extension
   PRESENCE
            &presence
}
   - -
-- Class Definition for Private IEs
- -
  ***********
NBAP-PRIVATE-IES ::= CLASS {
   &id
        PrivateIE-ID,
   &criticality Criticality,
   &Value,
   &presence
               Presence
3
WITH SYNTAX {
        &id
   ID
   CRITICALITY & criticality
   TYPE &Value
   PRESENCE &presence
   - -
-- Container for Protocol IEs
- -
  ····
ProtocollE-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (0..maxProtocolles)) OF
   ProtocolIE-Field {{IEsSetParam}}
ProtocolIE-Single-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::=
   ProtocolIE-Field {{IEsSetParam}}
ProtocolIE-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
   id
        NBAP-PROTOCOL-IES.&id
                             ({IEsSetParam}),
             NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}),
   criticality
                                 ({IEsSetParam}{@id})
   value
           NBAP-PROTOCOL-IES.&Value
}
  - -
-- Container for Protocol IE Pairs
- -
  *******
ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
   SEQUENCE (SIZE (0..maxProtocolIEs)) OF
   ProtocolIE-FieldPair {{IEsSetParam}}
ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::= SEQUENCE {
   id
         NBAP-PROTOCOL-IES-PAIR.&id
                                          ({IEsSetParam}),
```

```
({IEsSetParam}{@id}),
   firstCriticality
                       NBAP-PROTOCOL-IES-PAIR.&firstCriticality
   firstValue
                   NBAP-PROTOCOL-IES-PAIR.&FirstValue ({IEsSetParam}{@id}),
                      NBAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}),
   secondCriticality
                   NBAP-PROTOCOL-IES-PAIR. & SecondValue ({IEsSetParam}{@id})
   secondValue
  - -
-- Container Lists for Protocol IE Containers
  ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocollE-Container {{IEsSetParam}}
ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IESSetParam} ::=
   SEQUENCE (SIZE (lowerBound..upperBound)) OF
   ProtocolIE-ContainerPair {{IEsSetParam}}
    -- Container for Protocol Extensions
  *****
ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
   SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
   ProtocolExtensionField {{ExtensionSetParam}}
ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
   id
         NBAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}),
   criticality NBAP-PROTOCOL-EXTENSION.&criticality
                                              ({ExtensionSetParam}{@id}),
   extensionValue NBAP-PROTOCOL-EXTENSION. \&Extension ({ExtensionSetParam} \hat{e}
     *****
_ _
-- Container for Private IEs
- -
PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IEsSetParam}}
PrivateIE-Field {NBAP-PRIVATE-IES : IESSetParam} ::= SEOUENCE {
             NBAP-PRIVATE-IES.&id
   id
   ({IEsSetParam}),
   criticality
                   NBAP-PRIVATE-IES.&criticality
   ({IEsSetParam}{@id}),
   value
             NBAP-PRIVATE-IES.&Value
   ({IEsSetParam}{@id})
```

# 9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [11].

## 9.5 Timers

T<sub>Preempt</sub>

- Specifies the maximum time that a Node B may wait for pre-emption of resources for establishment or reconfiguration of Radio Links.

# 10 Handling of Unknown, Unforeseen and Erroneous Protocol Data

# 10.1 General

Protocol Error cases can be divided into three classes:

- Transfer Syntax Error
- Abstract Syntax Error
- Logical Error

Protocol errors can occur in the following functions within a receiving node:

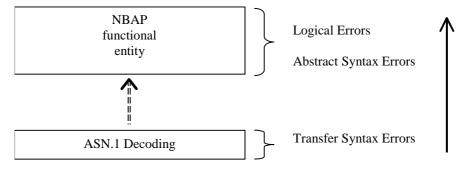


Figure 38: Protocol Errors in NBAP.

The information stated in subclauses 10.2, 10.3 and 10.4, to be included in the message used when reporting an error, is what at minimum shall be included. Other optional information elements within the message may also be included, if available. This is also valid for the case when the reporting is done with a response message. The latter is an exception to what is stated in subclause 4.1.

# 10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error.

- Violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, than this case will be handled as a transfer syntax error.
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

### 10.3 Abstract Syntax Error

### 10.3.1 General

An Abstract Syntax Error occurs when the receiving functional NBAP entity:

- 1. receives IEs or IE groups that cannot be understood (unknown id);
- 2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
- 3. does not receive IEs or IE groups but according to the specified presence of the concerned object, the IEs or IE groups should have been present in the received message;
- 4. receives IEs or IE groups that are defined to be part of that message in wrong order or with too many occurrences of the same IE or IE group;
- 5. receives IEs or IE groups but according to the conditional presence of the concerned object and the specified condition, the IEs or IE groups should not have been present in the received message.

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver. Case 4 (IEs or IE groups in wrong order or with too many occurrences) and Case 5 (erroneously present conditional IEs or IE groups) result in rejecting the procedure.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error that belong to cases 1-3 act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5. The handling of cases 4 and 5 is specified in subclause 10.3.6.

### 10.3.2 Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in subclause 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

The following rules restrict when a receiving entity may consider an IE, an IE group or an EP not comprehended (not implemented), and when action based on criticality information is applicable:

1. IE or IE group: When one new or modified IE or IE group is implemented for one EP from a standard version, then other new or modified IEs or IE groups specified for that EP in that standard version shall be considered comprehended by the receiving entity (some may still remain unsupported).

2. EP: The comprehension of different EPs within a standard version or between different standard versions is not mandated. Any EP that is not supported may be considered not comprehended, even if another EP from that standard version is comprehended, and action based on criticality shall be applied.

### 10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, NBAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field of the concerned object of class NBAP-PROTOCOL-IES, NBAP-PROTOCOL-IES-PAIR, NBAP-PROTOCOL-EXTENSION or NBAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:

- 1. Optional;
- 2. Conditional;
- 3. Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

If an IE/IE group is included in a received message and the presence of the IE/IE group is conditional and the condition is false according to the version of the specification used by the receiver, an abstract syntax error occurs due to this erroneously present conditional IE/IE group.

### 10.3.4 Not comprehended IE/IE group

#### 10.3.4.1 Procedure ID

The receiving node shall treat the different types of received criticality information of the *Procedure ID* according to the following:

#### **Reject IE:**

- If a message is received with a *Procedure ID* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

#### Ignore IE and Notify Sender:

- If a message is received with a *Procedure ID* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

#### **Ignore IE:**

- If a message is received with a *Procedure ID* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

When using the Error Indication procedure to reject a procedure or to report an ignored procedure it shall include the *Procedure ID* IE, the *Triggering Message* IE, and the *Procedure Criticality* IE in the *Criticality Diagnostics* IE.

#### 10.3.4.1A Type of Message

When the receiving node cannot decode the *Type of Message* IE, the Error Indication procedure shall be initiated with an appropriate cause value.

#### 10.3.4.2 IEs Other Than the Procedure ID and Type of Message

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure ID* IE and *Type of Message* IE according to the following:

#### **Reject IE:**

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*" that the receiving node does not comprehend, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

#### Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and report in the response message of the procedure that one or more IEs/IE groups have been ignored. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and initiate the Error Indication procedure.

#### **Ignore IE:**

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using the Error Indication procedure, the *Procedure ID* IE, the *Triggering Message* IE, *Procedure Criticality* IE, the *Transaction ID* IE, and the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be

included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

### 10.3.5 Missing IE or IE Group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

#### **Reject IE:**

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall terminate the procedure and initiate the Error Indication procedure.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

#### Ignore IE and Notify Sender:

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.

#### **Ignore IE:**

- If a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message.
- If a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall ignore that those IEs/IE groups are missing and continue with the procedure based on the other IEs/IE groups present in the message.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using the Error Indication procedure, the *Procedure ID* IE, the *Triggering Message* IE, *Procedure Criticality* IE, the *Transaction ID* IE, and the *Information Element Criticality Diagnostics* IE shall be included in the *Criticality Diagnostics* IE for each reported IE/IE group. In the *Information Element Criticality Diagnostics* IE the *Repetition Number* IE shall be

included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the *Message Structure* IE shall be included.

### 10.3.6 IEs or IE Groups Received in Wrong Order or With Too Many Occurrences or Erroneously Present

If a message with IEs or IE groups in wrong order or with too many occurrences is received or if IEs or IE groups with a conditional presence are present when the condition is not met (i.e. erroneously present), the receiving node shall behave according to the following:

- If a message *initiating* a procedure is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the cause value "Abstract Syntax Error (Falsely Constructed Message)" using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall terminate the procedure and initiate the Error Indication procedure, and use cause value "Abstract Syntax Error (Falsely Constructed Message)".
- If a *response* message is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

When determining the correct order only the IEs specified in the specification version used by the receiver shall be considered.

### 10.4 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality of the IEs/IE groups containing the erroneous values.

#### Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a message to report this unsuccessful outcome, this message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
  - 1. Semantic Error
  - 2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a message to report this unsuccessful outcome, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering Message* IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

Where the logical error exists in a response message of a class 1 procedure, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

#### Class 2:

Where the logical error occurs in a message of a class 2 procedure, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The *Procedure ID* IE, the *Triggering* 

*Message* IE and the *Transaction ID* IE within the *Criticality Diagnostics* IE shall then be included in order to identify the message containing the logical error.

### 10.5 Exceptions

The error handling for all the cases described hereafter shall take precedence over any other error handling described in the other subclause of clause 10.

- If any type of error (Transfer Syntax Error, Abstract Syntax Error or Logical Error) is detected in the ERROR INDICATION message, it shall not trigger the Error Indication procedure in the receiving Node but local error handling.
- In case a response message or ERROR INDICATION message needs to be returned, but the information necessary to determine the receiver of that message is missing, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.
- If an error that terminates a procedure occurs, the returned cause value shall reflect the error that caused the termination of the procedure even if one or more abstract syntax errors with criticality 'ignore and notify' have earlier occurred within the same procedure.

## Annex A (normative): Allocation and Pre-emption of Radio Links in the Node B

## A.1 Deriving Allocation Information for a Radio Link

### A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- NOTE: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or
  - b) a procedure adding or modifying the transport channel.
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels that are intended to use the Radio Link is set to "no priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels that are intended to use the Radio Link is not set to "no priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:
  - The transport channels that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.
  - The allocation priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all non excluded transport channels that are intended to use the Radio Link.
  - If all non-excluded transport channels that are intended to use a Radio Link to be established have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

If one or more non-excluded transport channels that are intended to use the Radio Link to be established have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

## A.1.2 Modification of an Existing Radio Link

The Allocation Information for a Radio Link in the case of modification of a Radio Link (addition or modification of transport channels using the Radio Link) shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- Note: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B,
  - b) a previous procedure adding or modifying the transport channel, or
  - c) the current procedure adding or modifying the transport channel.

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all transport channels to be added or modified in the Radio Link is set to "no priority", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more of the transport channels to be added or modified in the Radio Link is not set to "no priority", the allocation priority of and the pre-emption capability of the Radio Link to be modified shall be set according to the following:
  - The transport channels to be added or modified that have the *Priority Level* IE in the *Allocation/Retention Priority* IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link to be modified.
  - The allocation priority for a Radio Link to be modified shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all the non-excluded transport channels that are to be added or modified.
  - If all non-excluded transport channels that are to be added or modified in the Radio Link have the preemption capability, given by the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

If one or more of the non-excluded transport channels to be added or modified in the Radio Link have the value of the *Pre-emption Capability* IE in the *Allocation/Retention Priority* IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

## A.2 Deriving Retention Information for a Radio Link

The Retention Information for an existing Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.
- NOTE: The *Allocation/Retention Priority* IE for a transport channel may have been received in a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or

b) a procedure adding or modifying the transport channel.

- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for one or more transport channels using the Radio Link is set to "no priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".
- If the *Priority Level* IE in the *Allocation/Retention Priority* IE for all the transport channels using the Radio Link is not set to "no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:
  - The retention priority for a Radio Link shall be set to highest priority level, given by the *Priority Level* IE in the *Allocation/Retention Priority* IE, for all transport channels that uses the Radio Link.
  - If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".
     If one or more transport channels that uses the Radio Link have the value of the *Pre-emption Vulnerability* IE in the *Allocation/Retention Priority* IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the *Allocation/Retention Priority* IE, the retention information shall be derived again according to above.

## A.3 The Allocation/Retention Process

The Node B shall establish or modify the resources for a Radio Link according to:

- The value of the Allocation Information (allocation priority and pre-emption capability) of the Radio Link to be established or modified. The Allocation Information is derived according to clause A.1.
- The value of the Retention Information (retention priority and pre-emption vulnerability) of existing Radio Links. The Retention Information derived according to clause A.2.
- The resource situation in the cell.

Whilst the process and the extent of the pre-emption functionality is operator dependent, the pre-emption indicators (pre-emption capability and pre-emption vulnerability) shall be treated as follows:

- -. If the pre-emption capability for a Radio Link to be established or modified is set to "may trigger preemption" and the resource situation so requires, the Node B may trigger the pre-emption process in clause A.4 to free resources for this allocation request.
- -. If the pre-emption capability for a Radio Link to be established or modified is set to "shall not trigger preemption", then this allocation request shall not trigger the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "pre-emptable", then this Radio Link shall be included in the pre-emption process in clause A.4.
- -. If the pre-emption vulnerability for an existing Radio Link is set to "not pre-emptable", then this Radio Link shall not be included in the pre-emption process in clause A.4.

## A.4 The Pre-emption Process

The pre-emption process shall only pre-empt Radio Links with lower retention priority than the allocation priority of the Radio Link to be established or modified. The Radio Links to be pre-empted shall be selected in ascending order of the retention priority.

When the pre-emption process detects that one or more Radio Links have to be pre-empted to free resources for a Radio Link(s) to be established or modified, the Node B shall initiate the Radio Link Pre-emption procedure for all the Node B Communication Contexts having Radio Links selected for pre-emption and start the  $T_{Preempt}$  timer.

When enough resources are freed to establish or modify the Radio Link(s) according to the request, the Node B shall stop the  $T_{Preempt}$  timer and complete the procedure that triggered the pre-emption process in accordance with the "Successful Operation" subclause of the procedure.

If the T<sub>Preempt</sub> timer expires, the Node B shall regard the procedure that triggered the pre-emption process as failed and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.

## Annex B (informative): Measurement Reporting

When the *Report Characteristics* IE is set to "Event A" (figure B.1), the Measurement Reporting procedure is initiated when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

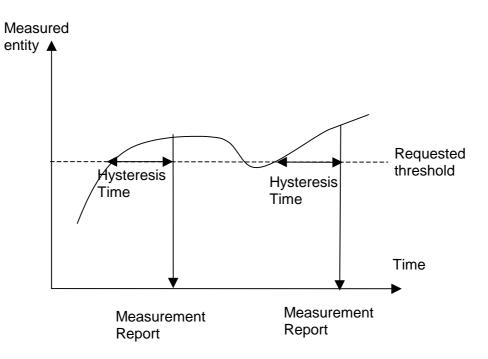


Figure B.1: Event A reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event B" (figure B.2), the Measurement Reporting procedure is initiated when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

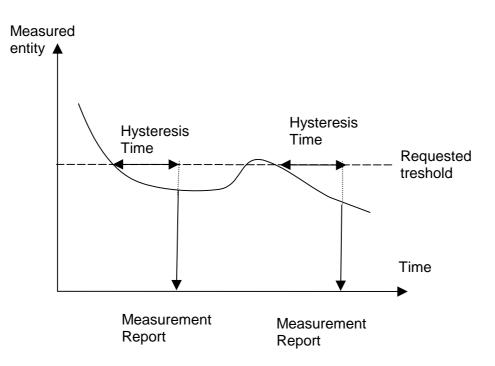


Figure B.2: Event B reporting with Hysteresis Time specified

When the *Report Characteristics* IE is set to "Event C" (figure B.3), the Measurement Reporting procedure is initiated always when the measured entity rises by an amount greater than the requested threshold within the requested time. The reporting in figure B.3 is initiated if the Rising Time T1 is less than the requested time.

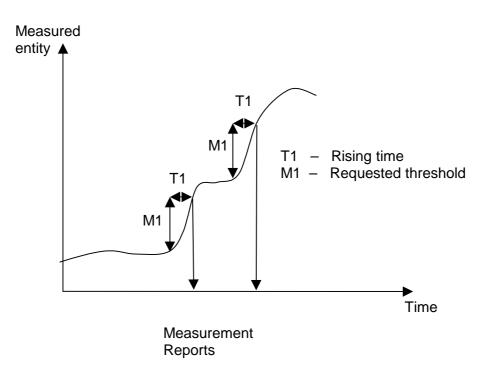
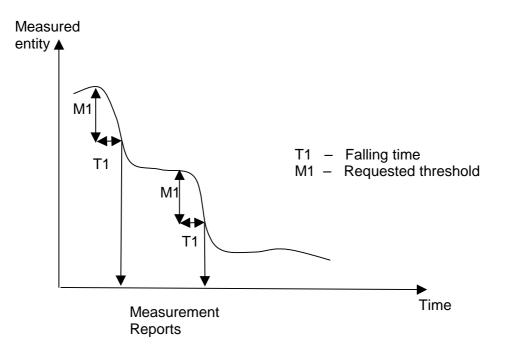


Figure B.3: Event C reporting

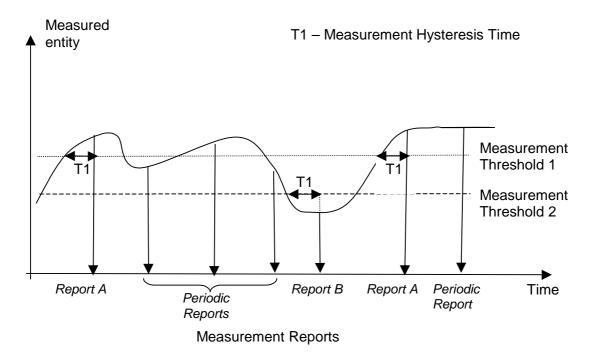
When the *Report Characteristics* IE is set to "Event D" (figure B.4), the Measurement Reporting procedure is initiated always when the measured entity falls by an amount greater than the requested threshold within the requested time. The reporting in figure B.4 is initiated if the Falling Time T1 is less than the requested time.





When the *Report Characteristics* IE is set to "Event E" (figure B.5), the Measurement Reporting procedure (Report A) is initiated always when the measured entity rises above the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.5). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity falls below the "Measurement Threshold 1" and is terminated by the Report B.

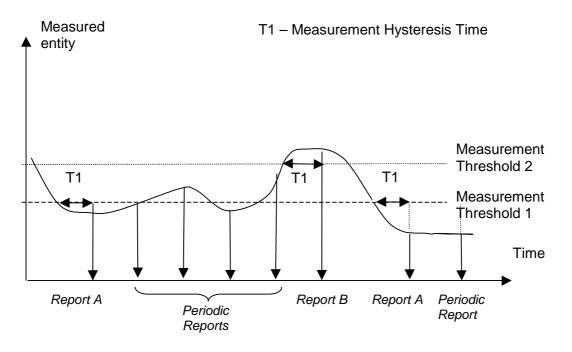
When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.





When the *Report Characteristics* IE is set to "Event F" (figure B.6), the Measurement Reporting procedure (Report A) is initiated always when the measured entity falls below the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.6). If *Report Periodicity* IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity rises above the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity rises above the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



**Measurement Reports** 

Figure B.6: Event F reporting with Hysteresis Time specified and Periodic Reporting requested

## Annex C (informative): Guidelines for Usage of the Criticality Diagnostics IE

## C.1 EXAMPLE MESSAGE Layout

Assume the following message format:

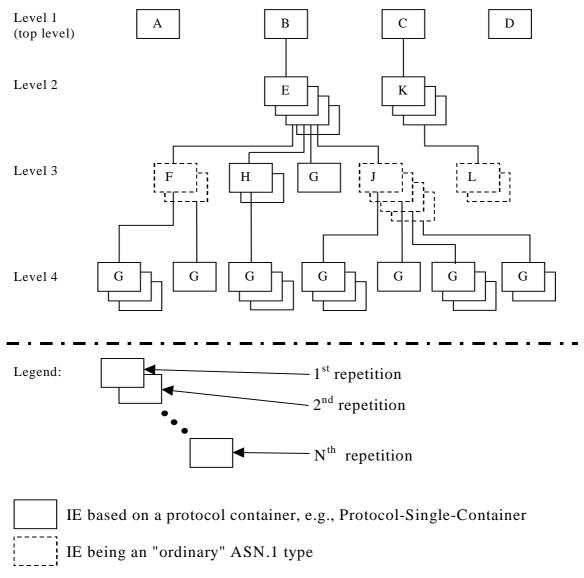
IE/Group Name	Presence	Range	IE Type and Referenc e	Semantics Description	Criticality	Assigned Criticality
Message Type	М				YES	reject
Transaction ID	М				_	
A	М				YES	reject
В	М				YES	reject
>E		1 <maxe></maxe>			EACH	ignore
>>F		1 <maxf></maxf>			-	
>>>G		03,			EACH	ignore
>>H		1 <maxh></maxh>			EACH	ignore
>>>G		03,			EACH	ignore and notify
>>G	М				YES	reject
>>J		1 <maxj></maxj>			_	
>>>G		03,			EACH	reject
С	М				YES	reject
>К		1 <maxk></maxk>			EACH	ignore and notify
>>L		1 <maxl></maxl>			_	
>>>M	0				—	
D	М				YES	reject

NOTE 1: The IEs F, J, and L do not have assigned criticality. The IEs F, J, and L are consequently realised as the ASN.1 type SEQUENCE OF of "ordinary" ASN.1 type, e.g. INTEGER. On the other hand, the repeatable IEs with assigned criticality are realised as the ASN.1 type SEQUENCE OF of an IE object, e.g. ProtocolIE-Single-Container.

For the corresponding ASN.1 layout, see subclause C.4.

## C.2 Example on a Received EXAMPLE MESSAGE

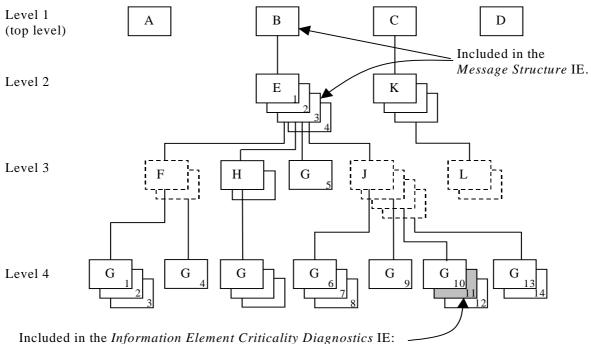
Assume further more that a received message based on the above tabular format is according to the figure below.





## C.3 Content of Criticality Diagnostics

### C.3.1 Example 1



a) *IE ID* IE

b) Repetition Number IE

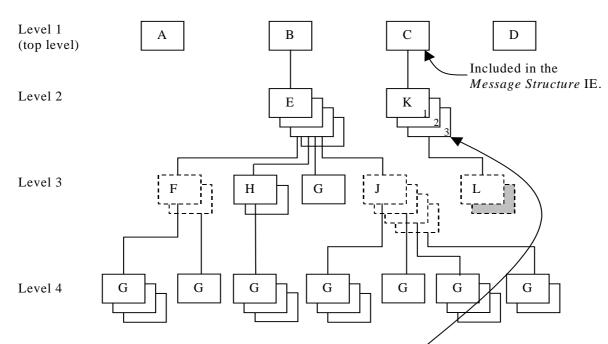
#### Figure C.2: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE J shown in the figure C.2 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 4.
IE ID	id-G	IE ID from the reported level, i.e. level 4.
Repetition	11	Repetition number on the reported level, i.e. level 4.
Number		(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is
		the eleventh occurrence of IE G within the IE E (level 2).
Type of Error	not	
	underst	
	ood	
Message Structur	e, first repe	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	e, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition	3	Repetition number from the lowest level above the reported level, i.e. level 2.
Number		

- Note 2. The IE J on level 3 cannot be included in the *Message Structure* IE since they have no criticality of their own.
- NOTE 3: The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

### C.3.2 Example 2



- Included in the Information Element Criticality Diagnostics IE: •
- a) IE ID IE
- b) Repetition Number IE

#### Figure C.3: Example of a received NBAP message containing a not comprehended IE

If there is an error within the second instance (marked as grey) in the sequence (IE L in the tabular format) on level 3 below IE K in the structure shown in the figure C.3 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment	
IE Criticality	ignore and notify	Criticality for IE on the reported level, i.e. level 2.	
IE ID	id-K	IE ID from the reported level, i.e. level 2.	
Repetition Number	3	Repetition number on the reported level, i.e. level 2.	
Type of Error	not underst ood		
Message Structu	re, first rep	etition	
>IE ID	id-C	IE ID from the lowest level above the reported level, i.e. level 1.	

NOTE 4: The IE L on level 3 cannot be reported individually included in the *Message Structure* IE since it has no criticality of its own.

#### Level 1 С D А В (top level) Included in the Message Structure IE. Level 2 Κ E Level 3 Η G Level 4 G G G G G G G

- Included in the Information Element Criticality Diagnostics IE:
- a) *IE ID* IE
- b) Repetition Number IE

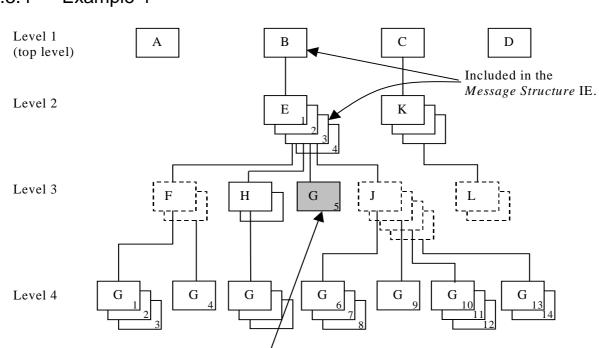
#### Figure C.4: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE H shown in the figure C.4 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	ignore	Criticality for IE on the reported level, i.e. level 4.
	and	
	notify	
IE ID	id-G	IE ID from the reported level, i.e. level 4.
Repetition	2	Repetition number on the reported level, i.e. level 4.
Number		
Type of Error	not	
	underst	
	ood	
Message Structur	e, first repe	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	re, second	repetition
>IE ID	id-E	IE ID from level 2.
>Repetition	3	Repetition number from level 2.
Number		
Message Structur	e, third rep	petition
>IE ID	id-H	IE ID from the lowest level above the reported level, i.e. level 3.
>Repetition	1	Repetition number from the lowest level above the reported level, i.e. level 3.
Number		

NOTE 5: The repetition number of level 4 indicates the number of repetitions of IE G received up to the detected erroneous repetition, counted below the same instance of the previous level with assigned criticality (instance 1 of IE H on level 3).

### C.3.3 Example 3



### C.3.4 Example 4

- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

#### Figure C.5: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE E shown in the figure C.5 above, this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 3.
IE ID	id-G	IE ID from the reported level, i.e. level 3.
Repetition	5	Repetition number on the reported level, i.e. level 3.
Number		(Since the IE E (level 2) is the lowest level included in the <i>Message Structure</i> IE this is the fifth occurrence of IE G within the IE E (level 2).
Type of Error	not	
	underst	
	ood	
Message Structur	e, first rep	etition
>IE ID	id-B	IE ID from level 1.
Message Structur	e, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition	3	Repetition number from the lowest level above the reported level, i.e. level 2.
Number		

NOTE 6: The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

#### Level 1 С D А В (top level) Included in the Message Structure IE. Level 2 K E Level 3 Η G Level 4 G G G G G G

- Included in the Information Element Criticality Diagnostics IE:
- a) *IE ID* IE
- b) Repetition Number IE

#### Figure C.6: Example of a received NBAP message with a missing IE

If the instance marked as grey in the IE G in the IE E shown in the figure C.6 above, is missing this will be reported within the *Information Element Criticality Diagnostics* IE within the *Criticality Diagnostics* IE as follows:

IE name	Value	Comment
IE Criticality	reject	Criticality for IE on the reported level, i.e. level 3.
IE ID	id-G	IE ID from the reported level, i.e. level 3.
Repetition Number	4	Repetition number up to the missing IE on the reported level, i.e. level 3. (Since the IE E (level 2) is the lowest level included in the <i>Message Structure</i> IE there have been four occurrences of IE G within the IE E (level 2) up to the missing occurrence.
Type of Error	missing	
Message Structu	re, <i>first rep</i>	etition
>IE ID	id-B	IE ID from level 1.
Message Structu	re, second	repetition
>IE ID	id-E	IE ID from the lowest level above the reported level, i.e. level 2.
>Repetition Number	3	Repetition number from the lowest level above the reported level, i.e. level 2.

NOTE 7: The repetition number of the reported IE indicates the number of repetitions of IE G received up to but not including the missing occurrence, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).

### C.3.5 Example 5

### C.4 ASN.1 of EXAMPLE MESSAGE

```
ExampleMessage ::= SEQUENCE {
    ProtocolIEs
                        ProtocolIE-Container
                                                          {{ExampleMessage-IEs}},
    ProtocolExtensions ProtocolExtensionContainer {{ExampleMessage-Extensions}}
                                                                                            OPTIONAL.
}
ExampleMessage-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-A CRITICALITY reject TYPE A PRESENCE mandatory} |
{ ID id-B CRITICALITY reject TYPE B PRESENCE mandatory} |
{ ID id-C CRITICALITY reject TYPE C PRESENCE mandatory} |
{ ID id-D CRITICALITY reject TYPE D PRESENCE mandatory} ,
    . . .
}
B ::= SEQUENCE {
                      E-List,
    е
    iE-Extensions ProtocolExtensionContainer { {B-ExtIEs} } OPTIONAL,
    . . .
}
B-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }
E-IES NBAP-PROTOCOL-IES ::= {
   { ID id-E CRITICALITY ignore TYPE E PRESENCE mandatory }
}
E ::= SEQUENCE {
    f
                      F-List,
    h
                     H-List,
    q
                     G-List1.
                     J-List,
    i
    iE-Extensions ProtocolExtensionContainer { {E-ExtIEs} } OPTIONAL,
    . . .
}
E-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
F-List ::= SEQUENCE (SIZE (1..maxF)) OF F
F ::= SEQUENCE {
                      G-List2 OPTIONAL.
    iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
    . . .
}
          NBAP-PROTOCOL-EXTENSION ::= {
F-ExtIEs
    . . .
}
G-List2 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { \{G2-IEs\} }
G2-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY ignore TYPE G PRESENCE mandatory }
H-List ::= SEQUENCE (SIZE (1..maxH)) OF ProtocolIE-Single-Container { {H-IEs} }
H-IES NBAP-PROTOCOL-IES ::= {
    { ID id-H CRITICALITY ignore TYPE H PRESENCE mandatory }
}
H ::= SEQUENCE {
                      G-List3 OPTIONAL,
    a
                                        ProtocolExtensionContainer { {H-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
H-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
3GPP TS 25.433 version 7.16.0 Release 7
```

```
. . .
}
G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }
G3-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
}
G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }
G1-IES NBAP-PROTOCOL-IES ::= {
    { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}
J-List ::= SEQUENCE (SIZE (1..maxJ)) OF J
J ::= SEQUENCE {
                   G-List4 OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {J-ExtIEs} } OPTIONAL,
}
J-ExtIES NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G4-IEs} }
G4-IES NBAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}
C ::= SEQUENCE \{
   k
                   K-List,
    iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
    . . .
}
C-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }
K-IES NBAP-PROTOCOL-IES ::= {
   { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
}
K ::= SEQUENCE {
                   L-List,
   1
   iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
   . . .
}
K-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
L-List ::= SEQUENCE (SIZE (1..maxL)) OF L
L ::= SEQUENCE \{
                   M OPTIONAL,
   m
   iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
   . . .
}
L-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
ExampleMessage-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

## Annex D (normative): IB\_SG\_DATA Encoding

## D.1 Overall Description

There exist two variants for encoding *IB\_SG\_DATA* IE (see section 9.2.1.32), which are detailed in subsections below. To avoid incorrect transmission of System Information on Uu, the following behaviour is required:

- For each Iub, CRNC shall use the encoding variant supported by the Node B for the *IB\_SG\_DATA* IE (see section 9.2.1.32) when sending the SYSTEM INFORMATION UPDATE REQUEST message to the Node B. This is supported by configuration in the CRNC.

## D.2 IB\_SG\_DATA Encoding Variant 1

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed SIB segment is performed by the RNC. Building of IB\_SG\_DATA segments involves two steps:

- 1) Segmentation of MIB/SIB/SB and
- 2) RRC encoding of the segments, which includes the PER encoding of the length in case of "SIB data variable".

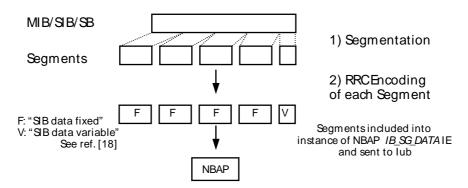
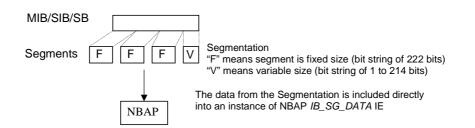


Figure D.1: The Building of Segments

## D.3 IB\_SG\_DATA Encoding Variant 2

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed segment is not performed by the RNC. Segments are built in the CRNC by segmentation of a MIB/SIB/SB.





## Annex E (informative): Reporting the status of resources used for frequency (1.28 Mcps TDD only)

For a multi-frequency cell, the Local Cell represents the resources in the Node B that can be used for the configuration of a number of frequencies in the cell. The resources for a frequency in Node B are defined as FPM (Frequency Process Module) and is identified by FPM ID.

In the Cell Setup procedure, RNC should configure FPM for each frequency by including *FPM ID* IE in the CELL SETUP REQUEST message.

In the Cell Reconfiguration procedure, RNC should configure FPM for each added frequency by including *FPM ID* IE in the CELL RECONFIGURATION REQUEST message.

In Audit procedure, the Node B should include the *FPM* ID IE and the *Local Cell ID* IE in the *Local Cell Information* IE to report the status of a FPM in the AUDIT RESPONSE message.

In Resource Status Indication procedure, the Node B should include the *FPM ID* IE and the *Local Cell ID* IE in the *Local Cell Information* IE to report the status of a FPM in the RESOURCE STATUS INDICATION message.

# Annex F (informative): Change history

TSG #	TSG Doc.	CR	Re v	Subject/Comment	New
03/2006	-	-	-	Creation of Rel-7 version based on v6.9.0	7.0.0
31	RP-060070	1184	1	Introduction of the PLCCH	7.0.0
31	RP-060073	1185	1	Introduction of 7.68Mcps TDD option	7.0.0
32	RP-060285	1215	2	Correction to the Time Slot Format Configuration of PUSCH/PDSCH for LCR TDD	7.1.0
32	RP-060279	1217	2	CR to 25.433[Rel-7] on correction for DL DPCH Power Information	7.1.0
32	RP-060280	1226	1	CR cross-dependencies for E-DCH Reference Power Offset by RL ADDITION	7.1.0
32	RP-060280	1230	2	Corrections to E-DCH Uplink Combination in RL SETUP and RL ADDITION	7.1.0
32	RP-060281	1234	1	Correction of the common related information for E-HICH and E-RGCH	7.1.0
32	RP-060281	1236		E-RGCH/E-HICH Power Offset value range	7.1.0
32	RP-060279	1238	-	Corrections to Combined RL Additoin with HS-DSCH /E-DCH Serving change	7.1.0
32	RP-060290	1239	2	Release 7 Timing Advance (3.84 Mpcs and 7.68 Mcps TDD)	7.1.0
32	RP-060291	1240	-	Addition of HS-DSCH information in radio link addition procedure for 7.68 Mcps TDD	7.1.0
32	RP-060280	1242	2	E-DCH and HS-DSCH same serving cell	7.1.0
32	RP-060280	1244	1	HS-DSCH Configured Indicator for Radio Link Addition	7.1.0
32	RP-060281	1246	1	E-RNTI allocation on serving change	7.1.0
32	RP-060276	1250	0	Aspect of CPCH not removed for power offset	7.1.0
32	RP-060407	1252	2	Introduction of TNL QoS IE for shared channels	7.1.0
32	RP-060289	1253	1	Change semantic description in tabular format of UARFCN IE	7.1.0
32	RP-060431	1256	2	Power Offset for E-DCH control-only transmissions	7.1.0
32	RP-060281	1258	1	Abnormal condition for HS-DSCH Configured Indicator IE	7.1.0
33	RP-060495	1260	2	Introduction of a Node B measurement for E-DCH RRM	7.2.0
33	RP-060506	1262	3	Modifying HS-DSCH Physical Layer Category Info in Radio Link Reconfiguration procedure	7.2.0
33	RP-060506	1270	2	Addition of the TPC step size for HS-SICH in 1.28Mcps TDD	7.2.0
33	RP-060501	1275	1	Correction on the value range of E-DCH IEs	7.2.0
33	RP-060505	1277	2	Corrections on physical shared channel reconfiguration	7.2.0
33	RP-060501	1279	1	E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages	7.2.0
33	RP-060500	1281	1	DCH combined when EDCH operation	7.2.0
33	RP-060505	1283		Alignment of the RL Specific E-DCH Information IE tabular format to ASN.1	7.2.0
33	RP-060500	1287	4	Optional usage of the E-DCH Reference Power Offset IE	7.2.0
33	RP-060506	1289	1	Clarification on Communication Context ID usage for the Reset Request	7.2.0
33	RP-060498	1292	4	TFCI2 bearer Cleanup for Radio link Deletion	7.2.0
33 33	RP-060511	1294 1296	1	Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink	7.2.0
33	RP-060506	1296	2	Per time slot configuration of TFCI for TDD FACH type CCTrCHs	7.2.0
33	RP-060509		1	Extended WCDMA Cell Range Addition of missing ASN.1 from CR1252	
33	RP-060514 RP-060500	1300 1305	1	Further Abnormal Conditions for E-DCH	7.2.0
33	RP-060505	1303		General Description for E-DCH in RL Setup procedure	7.2.0
33	RP-060596		2	Introduction of a noise floor indication from Node B for E-DCH RRM	7.2.0
33	RP-060502	1308	2	Introduction of new indicator for non DCH operation	7.2.0
33	RP-060479			Correction to coding of PLCCH for 1.28Mcps TDD	7.2.0
33	RP-060570	1313		Introduction of SIB11bis	7.2.0
34		1317	1	Correction for the max reptition of RL Information Response IE in tabular	7.3.0
34	RP-060700		-	Correction to an abnormal case in E-DCH RL ADDITION	7.3.0
34	RP-060703		1	MAC-hs Reset Indicator	7.3.0
34	RP-060709		2	Fast Reconfiguration	7.3.0
34	RP-060705		2	Correction of Round Trip Time for Extended Cell Range	7.3.0
34	RP-060707		1	RL Setup Procedure Combined with HSPA Serving Cell Change	7.3.0
35	RP-070065		5	lub transport efficiency improvement for MBMS	7.4.0
35	RP-070057	1330	2	Introduction of Continuous Packet Connectivity in NBAP	7.4.0
35	RP-070057		1	HS-PDSCH code change for CPC mode	7.4.0
35	RP-070053		1	Abnormal conditions for IP Transport Option and Diversity Control field	7.4.0
35	RP-070056		1	Correction of the Maximum number of logical channel ID	7.4.0
35	RP-070050	1342	1	Introduction of MIMO in NBAP	7.4.0
35	RP-070129		2	Introduction of 1.28 Mcps TDD Enhanced Uplink	7.4.0
35	RP-070067	1346	1	Introduction of Downlink Higher Order Modulation in NBAP	7.4.0
35	RP-070063		2	Presence of Guaranteed Bit Rate	7.4.0
36	RP-070332	1341	3	Support of higher bitrates and Flexible RLC PDU size on HS-DSCH	7.5.0
36	RP-070331	1347	4	Introduction of Uplink Higher Order Modulation in NBAP	7.5.0
36	RP-070328		5	Introduction of Enhanced Cell_FACH state feature	7.5.0
36	RP-070338		1	Support of F-DPCH Enhancement	7.5.0
36	RP-070335		1	Introduction of MBMS SFN (TDD)	7.5.0
	RP-070333		2	Introduction of MBMS SFN (FDD)	7.5.0
36	RP-070333	1,374		HITHOULGHOT OF MIDING GEN (EDD)	

36	RP-070320	1359		Correction of wrong description for E-DCH HARQ process allocation for 2ms TT	7.5.0
36	RP-070320	1362	1	Abnormal condition for Unidirection DCH Indicator	7.5.0
36	RP-070320	1364	2	Modification on the range of Measurement Value for HS-SICH reception quality in LCR TDD	7.5.0
36	RP-070320	1366	2	Further clarification on application of the HS-SICH SIR Target IE	7.5.0
36	RP-070320	1368	1	Further correction of HS-DSCH information for LCR TDD	7.5.0
36	RP-070336	1370	3	Introduction of MBMS LCR TDD physical layer enhancements	7.5.0
36	RP-070326	1371	-	Alignment of UE DTX long preamble IE in RNSAP/NBAP with RRC	7.5.0
36	RP-070327	1372		Introduction of missing cause values for MIMO	7.5.0
36	RP-070326	1373	1	Introduction of missing cause values for CPC	7.5.0
36	RP-070394	1375		Correction to definition of Power Resource Related Information (TDD only)	7.5.0
36	RP-070339	1378	2	Alignment of LCR TDD IEs tabular description with ASN.1 definition	7.5.0
36	RP-070337	1379	2	Introduction of GANSS (Galileo and Additional Navigation Systems) in NBAP	7.5.0
36	RP-070340	1380	1	Max UE DTX Cycle Signaling Support for CPC operation	7.5.0
36	RP-070324	1382		Some minor corrections for 1.28 Mcps TDD E-DCH	7.5.0
36	RP-070324	1383	1	Modification on the non-scheduled transmission and the UL interference control for 1.28 Mcps TDD E-DCH	7.5.0
36	RP-070474	1386	2	Introduction of Extended RNC-ID	7.5.0
37	RP-070565	1388	2	Clarification of the MBMS Notification update procedure	7.6.0
37	RP-070566	1390	2	Correction of Power offset for E-HICH, E-AGCH, E-RGCH and HS-SCCH when F-DPCH is configured	7.6.0
37	RP-070565	1392	1	PO2 for F-DPCH	7.6.0
37	RP-070569	1393		TDD E-DCH Non-scheduled resource deletion	7.6.0
37	RP-070571	1394	1	Extension of the ranges of the MAC-hs / MAC-es Guaranteed Bit Rate IEs	7.6.0
37	RP-070572	1395	1	Extension of the range of the "Reference E-TFCI Power Offset" for UL 16QAM	7.6.0
37	RP-070572	1396	1	Extension of the ranges of the "Maximum Number of Bits per MAC-e PDU for Non-	7.6.0
			1	scheduled transmission" and "E-DCH Maximum Bitrate" for UL 16QAM	
37	RP-070630	1397	2	HARQ Memory Partitioning for MIMO	7.6.0
37	RP-070580	1399	1	Transport bearer sharing for FACHs	7.6.0
37	RP-070580	1400		Binding ID and Transport Layer Address IEs in CTrCH SETUP RESPONSE	7.6.0
37	RP-070580	1401		ToA window reconfiguration in case of transport bearer shared by several FACHs	7.6.0
37	RP-070580	1402	1	Use of RSI (service impacting) for change of capabilities reported in conditional IEs	7.6.0
37	RP-070574	1403		MBSFN Only Mode Capability IE in AUDIT RESPONSE message	7.6.0
37	RP-070567	1404		TUTRAN-GPS Accuracy Class IE not applicable to GANSS	7.6.0
37	RP-070580	1407	2	A small change on the configuration of MBSFN Cell Parameter ID for 1.28 Mcps TDD	7.6.0
37	RP-070650	1408	3	Introduction of multi-frequency for 1.28Mcps TDD in 25.433	7.6.0
37	RP-070571	1410	1	N/M ratio for MIMO decided by the Node B	7.6.0
37	RP-070573	1411		Corrections related to changes for Improved L2 and Enhanced FACH	7.6.0
37	RP-070580	1412		Removal of reference to SIB 8,9,10	7.6.0
37	RP-070580	1413	3	NBAP clean up	7.6.0
37	RP-070574			Adding unit to modulation power offset for MBSFN	7.6.0
37		1416	2	Corrections/Small Improvements for Enhanced Cell_FACH	7.6.0
37	RP-070575			Corrections/Small Improvements for CPC	7.6.0
37	RP-070581	1420	1	Enhancements to Macro Diversity & Cell Interference Control	7.6.0
38	RP-070846	1409	3	The Improvement of lub Efficiency for MBMS in IP RAN	7.7.0
38	RP-070841	1422	2	ASN1-Tabular alignment for GANSS feature in TS25.433	7.7.0
38	RP-070838	1423		Correction of CPC parameters	7.7.0
38	RP-070911	1424		E-TFCI BetaEC Boost and E-TFCI BetaED Switch IEs updates	7.7.0
38	RP-071017	1425	2	HARQ Memory Partitioning Information Extension For MIMO IE criticality	7.7.0
38	RP-070938	1426		Scheduled Grant setting in DTX Cycle 2 during CPC operation	7.7.0
38	RP-070842	1427		ASN.1 cleanup	7.7.0
38	RP-070842	1428	1	Update of the tabular description	7.7.0
38	RP-070844	1431		ASN.1 Modification for 1.28Mcps TDD	7.7.0
38	RP-070840	1432	2	Further corrections on Enhanced Cell_FACH	7.7.0
38	RP-070844	1434	2	More improvement on dedicated frequency for 1.28 Mcps TDD MBMS	7.7.0
38	RP-070844			Corrections and clarifications of RoT threshold for LCR TDD E-DCH	7.7.0
38	RP-070844	1436		HS-SCCH Channelisation Code for Cell_PCH UE	7.7.0
38	RP-070839	1437	2	64 QAM Activation	7.7.0
38	RP-070838	1438		Correction for PRXdes_base in LCR TDD EUL	7.7.0
38	RP-070843	1439		Correction for E-DCH Combing in RL Reconfiguration	7.7.0
38	RP-071041	1440	3	Abnormal condition for UL DPCCH slot format 4	7.7.0
38	RP-070843	1441	1	Correction of the location of Delta T2TP parameter	7.7.0
			1	Correction on MAC-d PDU Size for E-DCH	7.8.0
39	RP-080072	1442	_		
39	RP-080073	1443	1	Correction on Abnormal Condition for identical cell on HSDPA/E-DCH Serving Cell	7.8.0
39 39	RP-080073 RP-080073	1443 1444	_	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify	7.8.0
39 39 39	RP-080073 RP-080073 RP-080072	1443 1444 1445	1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement	7.8.0 7.8.0
39 39 39 39	RP-080073           RP-080073           RP-080072           RP-080072	1443 1444 1445 1446	1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling	7.8.0 7.8.0 7.8.0
39 39 39 39 39 39	RP-080073           RP-080073           RP-080072           RP-080072           RP-080072           RP-080074	1443 1444 1445 1446 1447	1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification	7.8.0 7.8.0 7.8.0 7.8.0
39 39 39 39 39 39 39	RP-080073           RP-080073           RP-080072           RP-080072           RP-080074           RP-080073	1443 1444 1445 1446 1447 1448	1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification UL DPCCH Slot Format 5 undefined	7.8.0 7.8.0 7.8.0 7.8.0 7.8.0
39 39 39 39 39 39 39 39	RP-080073           RP-080073           RP-080072           RP-080072           RP-080074           RP-080073           RP-080073	1443 1444 1445 1446 1447 1448 1450	1 1 	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification UL DPCCH Slot Format 5 undefined Addition of IE "Continuous Packet Connectivity HS-SCCH less Deactive Indicator"	7.8.0 7.8.0 7.8.0 7.8.0 7.8.0 7.8.0 7.8.0
39 39 39 39 39 39 39	RP-080073           RP-080073           RP-080072           RP-080072           RP-080074           RP-080073	1443 1444 1445 1446 1447 1448	1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification UL DPCCH Slot Format 5 undefined	7.8.0 7.8.0 7.8.0 7.8.0 7.8.0

39	RP-080076	1453	1	Introduction of an additional UE Category for 1.28Mcps TDD E-DCH	7.8.0
39	RP-080076	1454	1	Introduction of multi-frequency operation for HSUPA for 1.28Mcps TDD	7.8.0
39	RP-080072	1455		Event C and D for Received Scheduled E-DCH Power Share for Cell Portion	7.8.0
39	RP-080151	1462	2	Correction the condition of UL DPDCH Indicator for E-DCH Operation	7.8.0
40	RP-080404	1465	2	Mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps	7.9.0
-				TDD in EUL	
40	RP-080295	1469	1	Modification of E-HICH Time Offset configuration for LCR TDD	7.9.0
40	RP-080295	1475	1	Extended power control gap for E-PUCH in LCR TDD	7.9.0
40	RP-080296	1477	1	Support of octet aligned HS-DSCH transport block sizes for non-64QAM	7.9.0
40	RP-080298	1479		Power Control Gap IE handling	7.9.0
40	RP-080299	1482	2	RL Parameter Update for E-DCH FDD DL Control Channel Information	7.9.0
40	RP-080298	1484	1	Clarification on Transport Bearer Not Requested Indicator	7.9.0
40	RP-080298	1488		ASN.1 and tabular misalignment	7.9.0
40	RP-080294	1496	1	Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration	7.9.0
40	RP-080300	1498	1	GANSS Corrections	7.9.0
41	RP-080576	1503		Extension of the ranges of the HS-DSCH / E-DCH Provided Bit Rate Value IEs	7.10.0
41	RP-080576	1505	1	COMMON TRANSPORT CHANNEL SETUP REQUEST TDD message ASN correction	7.10.0
41	RP-080580	1507	1	Correct ASN.1 compatibility problem in PHYSICAL SHARED CHANNEL	7.10.0
				RECONFIGURATION FAILURE message for 1.28Mcps TDD	
41	RP-080576	1511	2	Addition of 16QAM AG table choice IE	7.10.0
41	RP-080576	1513	2	Adding abnormal conditions to Continuous Packet Connectivity	7.10.0
41	RP-080577	1522		DRX-DTX and F-DPCH	7.10.0
41	RP-080578	1527		Description of Priority Queue ID for Enhanced Cell_FACH	7.10.0
41	RP-080578	1529	1	Removing the ambiguity in HS-DSCH Common System Information description	7.10.0
41	RP-080580	1531		Some minor description corrections for E-DCH in LCR TDD	7.10.0
41	RP-080580	1533	2	Add Additional Time Slot LCR IE in common measuement messages	7.10.0
41	RP-080579	1535		Correction of SixtyfourQAM-DL-UsageIndicator	7.10.0
41	RP-080576	1541		Correction on Enhanced Cell_FACH/Cell_PCH	7.10.0
42	RP-080838	1552	1	Indication of E-DPCCH Power Boosting capability	7.11.0
42	RP-080838	1562	1	Correction of power control gap for 1.28Mcps TDD	7.11.0
42	RP-080838	1566	1	Correction on Usage for Transport Bearer Not Requested Indicator	7.11.0
43	RP-090075	1573	2	Addition of MBR Parameter for 1.28Mcps TDD Enhanced Uplink	7.12.0
43	RP-090074	1576	2	Addition of Multi-carrier HS-DSCH physical layer category for 1.28Mcps TDD	7.12.0
43	RP-090072	1579		Addition of MAC-hs Reset Indicator IE into RADIO LINK ADDITION FAILURE message	7.12.0
43	RP-090075	1594	3	Enhancement of MBMS reception with simultanneous HSDPA for 1.28Mcps TDD	7.12.0
44	RP-090631	1614		Improved CM checks for F-DPCH	7.13.0
44	RP-090631	1618	1	Clarification of E-AGCH Table Choice	7.13.0
44	RP-090631	1620	1	Addition of UL 16QAM credit consumption in E-DCH Capacity Consumption Law	7.13.0
44	RP-090630	1629	1	Correction of the value range of MAC PDU Size Extended IE in NBAP	7.13.0
45	RP-090780	1641	1	Corrections to the common measurement for 1.28Mcps TDD	7.14.0
45	RP-090962	1669	1	Rel-7 NBAP Support for Signaling of S-CPICH power offset and DL Control Channel TX	7.14.0
				Diversity for MIMO UEs	
46	RP-091178	1674	1	Correction to ASN.1 for MiMO Power offset	7.15.0
02/2010				ToC updated	7.15.1
47	RP-100199	1788		Indication of Precoding Weight Set Restriction preference	7.16.0

# History

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