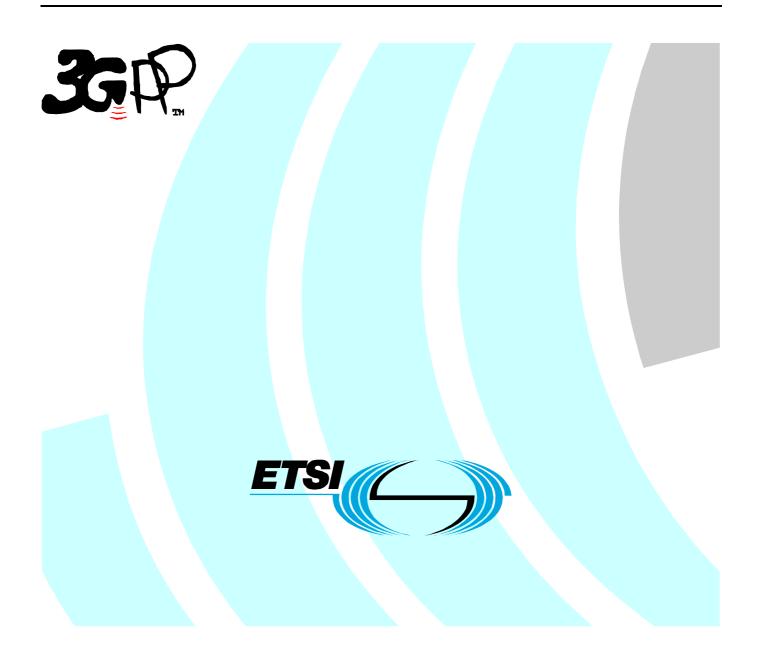
# ETSI TS 125 423 V7.9.0 (2008-07)

**Technical Specification** 

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# Foreword

This Technical Specification (TS) has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

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

Version x.y.z

where:

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

### 1 Scope

The present document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode.

# 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 23.003: "Numbering, addressing and identification".
- [2] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3GPP TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] 3GPP TS 25.435: "UTRAN Iub interface User Plane Protocols for Common Transport Channel Data Streams".
- [6] 3GPP TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception".
- [7] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3GPP TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)".
- [10] 3GPP TS 25.214: "Physical Layer Procedures (FDD)".
- [11] 3GPP TS 25.215: "Physical Layer Measurements (FDD)".
- [12] 3GPP TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3GPP TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3GPP TS 25.225: "Physical Layer Measurements (TDD)".
- [15] 3GPP TS 25.304: "UE Procedures in Idle Mode"
- [16] 3GPP TS 25.331: "RRC Protocol Specification".
- [17] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] ITU-T Recommendation X.680 (07/2002): "Information technology Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (07/2002): "Information technology Abstract Syntax Notation One (ASN.1): Information object specification".

- [20] ITU-T Recommendation X.691 (07/2002): "Information technology ASN.1 encoding rules Specification of Packed Encoding Rules (PER)".
- [21] 3GPP TS 25.213: "Spreading and modulation (FDD)".
- [22] 3GPP TS 25.224: "Physical Layer Procedures (TDD)".
- [23] 3GPP TS 25.133: "Requirements for support of Radio Resource management (FDD)".
- [24] 3GPP TS 25.123: "Requirements for support of Radio Resource management (TDD)".
- [25] 3GPP TS 23.032: "Universal Graphical Area Description (GAD)".
- [26] 3GPP TS 25.302: "Services Provided by the Physical Layer".
- [27] 3GPP TS 25.213: "Spreading and modulation (FDD)".
- [28] 3GPP TR 25.921: "Guidelines and Principles for Protocol Description and Error Handling".
- [29] GSM TS 05.05: "Digital cellular telecommunications system (Phase 2+); Radio transmission and reception".
- [30] ICD-GPS-200: "Navstar GPS Space Segment/Navigation User Interface".
- [31] RTCM-SC104: "RTCM Recommended Standards for Differential GNSS Service (v.2.2)".
- [32] 3GPP TS 25.425: "UTRAN Iur and Iub Interface User Plane Protocols for Common Transport Channel data streams ".
- [33] IETF RFC 2460 "Internet Protocol, Version 6 (IPv6) Specification".
- [34] IETF RFC 768 "User Datagram Protocol", (8/1980)
- [35] 3GPP TS 25.424: " UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams ".
- [36]3GPP TS 44.118: "Mobile radio interface layer 3 specification; Radio Resource Control (RRC)<br/>Protocol Iu mode".
- [37] 3GPP TR 43.930: "Iur-g interface; Stage 2".
- [38] 3GPP TS 48.008: "Mobile-services Switching Centre Base Station System (MSC BSS) interface; Layer 3 specification".
- [39] 3GPP TS 43.051: "GSM/EGDE Radio Access Network; Overall description Stage 2".
- [40] 3GPP TS 25.401: "UTRAN Overall Description".
- [41] 3GPP TS 25.321: "MAC protocol specification".
- [42] 3GPP TS 25.306: "UE Radio Access capabilities".
- [43] 3GPP TS 25.101: "User Equipment (UE) radio transmission and reception (FDD)".
- [44] IETF RFC 2474 "Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers".
- [45] IETF RFC 2475 "An Architecture for Differentiated Services".
- [46] 3GPP TS 25.222: "Multiplexing and Channel Coding (TDD)".
- [47] 3GPP TS 44.060: "General Packet Radio Service (GPRS); Mobile Station (MS) Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol".
- [48] 3GPP TS 32.421: "Subscriber and equipment trace: Trace concepts and requirements".
- [49] 3GPP TS 32.422: "Subscriber and equipment trace: Trace control and Configuration Management".

- [50] 3GPP TS 25.346: "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in the Radio Access Network (Stage-2) ".
- [51] 3GPP TS 23.246: "Multimedia Broadcast Multicast Service; Architecture and Functional Description".
- [52] 3GPP TS 25.319: "Enhanced Uplink; Overall description; Stage 2".
- [53] Galileo OS Signal in Space ICD (OS SIS ICD), Draft 0, Galileo Joint Undertaking, May 23<sup>rd</sup>, 2006.
- [54] 3GPP TS 23.251: "Network Sharing: Architecture and functional description".

# 3 Definitions, Symbols and Abbreviations

### 3.1 Definitions

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

**Elementary Procedure:** RNSAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between two RNCs. 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.

**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 UE Context still exists.

**UE Context:** The UE Context contains the necessary information for the DRNC/DBSS to communicate with a specific UE. The UE Context is created by the Radio Link Setup procedure or by the Uplink Signalling Transfer procedure when the UE makes its first access in a cell controlled by the DRNS/DBSS. The UE Context is deleted by the Radio Link Deletion procedure, by the Common Transport Channel Resources Release procedure, or by the Downlink Signalling Transfer procedure when neither any Radio Links nor any common transport channels are established towards the concerned UE. The UE Context is identified by the SCCP Connection for messages using connection oriented mode of the signalling bearer and the D-RNTI for messages using connectionless mode of the signalling bearer, unless specified otherwise in the procedure text.

**Distant RNC Context:** The Distant RNC context is created by the first Common Measurement Initiation Procedure or Information Exchange Initiation Procedure initiated by one RNC/BSS and requested from another RNC/BSS. The Distant RNC Context is deleted after the Common Measurement Termination, the Common Measurement Failure, the Information Exchange Termination or the Information Exchange Failure procedure when there is no more Common Measurement and no more Information to be provided by the requested RNC/BSS to the requesting RNC/BSS. The

Distant RNC Context is identified by an SCCP connection as, for common measurements and information exchange, only the connection oriented mode of the signalling bearer is used.

**Signalling radio bearer 2:** The signalling radio bearer 2 is used by the UE to access a GERAN cell in order to perform RRC procedures [36].

UE Link: see definition in [50].

URA Link: see definition in [50].

MBMS Bearer Service: see definition in [51].

MBMS session: see definition in [50].

MBMS session start: see definition in [50].

MBMS session stop: see definition in [50].

MBMS Selected Services: see definition in [50].

### 3.2 Symbols

Void.

### 3.3 Abbreviations

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

A-GPS	Assisted-GPS
ALCAP	Access Link Control Application Part
APN	Access Point Name
ASN.1	Abstract Syntax Notation One
BER	Bit Error Rate
BLER	Block Error Rate
BSS	Base Station Subsystem
CBSS	Controlling BSS
CCCH	Common Control Channel
CCPCH	Common Control Physical Channel
CCTrCH	Coded Composite Transport Channel
CFN	Connection Frame Number
C-ID	Cell Identifier
СМ	Compressed Mode
CN	Core Network
CPICH	Common Pilot Channel
CRNC	Controlling RNC
DBSS	Drift BSS
C-RNTI	Cell Radio Network Temporary Identifier
CS	Circuit Switched
CTFC	Calculated Transport Format Combination DCH Dedicated Channel
DGPS	Differential GPS
DL	Downlink
DPC	Downlink Power Control
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DRNC	Drift RNC
DRNS	Drift RNS
D-RNTI	Drift Radio Network Temporary Identifier
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
Ec	Energy in single Code
E-AGCH	E-DCH Absolute Grant Channel

E DOU	
E-DCH	Enhanced UL DCH
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)
EDSCHPC	Enhanced Downlink Shared Channel Power Control
EP	Elementary Procedure
FACH	Forward Access Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
FN	Frame Number
	Frame Protocol
FP	
GANSS	Galileo and Additional Navigation Satellite Systems
GERAN	GSM EDGE Radio Access Network
GA	Geographical Area
GAI	Geographical Area Identifier
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
GRA	GERAN Registration Area
GSM	Global System Mobile
GWCN	Gateway Core Network
HSDPA	High Speed Downlink Packet Access
HW	Hardware
IB	Information Block
ID	Identity or Identifier
IE	Information Element
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
IPDL	Idle Period DownLink
ISCP	Interference Signal Code Power
LAC	Location Area Code
LCR	Low Chip Rate (1.28 Mcps)
LCS	Location Services
MAC	Medium Access Control
MBMS	Multimedia Broadcast Multicast Service
MOCN	Multi-Operator Core Network
MS	Mobile Station
NACC	Network Assissted Cell Change
NACC	Non Access Stratum
NAS	Reference Noise
	Non Real Time
NRT	
O&M	Operation and Maintenance
P(-)CCPCH	Primary CCPCH
PCH	Paging Channel
OTD	Observed Time Difference
P(-)CPICH	Primary CPICH
PCS	Personal Communication Services
PDSCH	Physical Downlink Shared Channel
PDU	Protocol Data Unit
PhCH	Physical Channel
PICH	Paging Indication Channel
PLCCH	Physical Layer Common Control Channel
Pos	Position or Positioning
PRACH	Physical Random Access Channel
PTP	Point To Point
PTM	Point To Multipoint
PS	Packet Switched
QE	Quality Estimate
RAC	Routing Area Code
RACH	Random Access Channel

RAN	Radio Access Network
RANAP	Radio Access Network Application Part
RB	Radio Bearer
RL	Radio Link
RLC	Radio Link Control
RLS	Radio Link Set
RM	Rate Matching
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identifier
RRC	Radio Resource Control
RT	Real Time
RSCP	Received Signal Code Power
SBSS	Serving BSS
Rx	Receive or Reception
Sat	Satellite
SCCP	Signalling Connection Control Part
S(-)CCPCH	Secondary CCPCH
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity
SDU	Service Data Unit
SF	System Frame
SFN	System Frame Number
SHCCH	Shared Control Channel
SIR	Signal-to-Interference Ratio
SNA	Shared Network Area
SRB2	Signalling radio bearer 2
SRNC	Serving RNC
SRNS	Serving RNS
S-RNTI	Serving Radio Network Temporary Identifier
STTD	Space Time Transmit Diversity
TDD	Time Division Duplex
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Indicator
TFS	Transport Format Combination Set
TGCFN	Transmission Gap Connection Frame Number
TMGI	Temporary Mobile Group Identity
ToAWE	Time of Arrival Window Endpoint
ToAWS	Time of Arrival Window Startpoint
TPC	Transmit Power Control
TrCH	Transport Channel
TS	Time Slot
TSG	Technical Specification Group
TSTD	Time Switched Transmit Diversity
TTI	Transmission Time Interval
TX	Transmit or Transmission
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UC-ID	UTRAN Cell Identifier
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
URA	UTRAN Registration Area
U-RNTI	UTRAN Radio Network Temporary Identifier
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 DRNC/CRNC exactly and completely. The SRNC functional behaviour is left unspecified. The Physical Channel Reconfiguration procedure, [TDD – the UE Measurement Initiation, the UE Measurement Reporting, UE Measurement Termination, UE Measurement Failure,] and the Reset procedure are 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 for 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 Source Signalling Address Handling

The sender of an RNSAP messages shall include the Source Signalling Address, i.e. the Signalling Address of the sending node.

### 4.4 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, 7.68Mcps 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, 7.68Mcps 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.
- [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.<br/>Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of<br/>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 *Information Element Name* 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. *Transport Format Set* 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 RNSAP Services

### 5.1 RNSAP Procedure Modules

The Iur interface RNSAP procedures are divided into four modules as follows:

1. RNSAP Basic Mobility Procedures;

- 2. RNSAP Dedicated Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures;
- 5. RNSAP MBMS Procedures.

The Basic Mobility Procedures module contains procedures used to handle the mobility within UTRAN, within GERAN and between UTRAN and GERAN.

The Dedicated Procedures module contains procedures that are used to handle DCHs, [FDD – F-DPCH,] [TDD – DSCHs, USCHs], HS-DSCH and E-DCH between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of DCH, [FDD – F-DPCH,] [TDD – DSCH, USCH,] HS-DSCH and E-DCH traffic between corresponding RNSs is not possible.

The Common Transport Channel Procedures module contains procedures that are used to control common transport channel data streams (excluding the DSCH, HS-DSCH and USCH) over Iur interface.

The Global Procedures module contains procedures that are not related to a specific UE. The procedures in this module are in contrast to the above modules involving two peer CRNCs/CBSSs.

The MBMS Procedures module contains procedures that are specific to MBMS and used for cases that cannot be handled by other modules.

### 5.2 Parallel Transactions

Unless explicitly indicated in the procedure specification, at any instance in time one protocol peer shall have a maximum of one ongoing RNSAP Dedicated procedure related to a certain UE.

# 6 Services Expected from Signalling Transport

The signalling transport shall provide two different service modes for the RNSAP.

- 1. Connection oriented data transfer service. This service is supported by a signalling connection between two RNCs. It shall be possible to dynamically establish and release signalling connections based on the need. Each active UE shall have its own signalling connection. The signalling connection shall provide in sequence delivery of RNSAP messages. RNSAP shall be notified if the signalling connection breaks.
- 2. Connectionless data transfer service. RNSAP shall be notified in case a RNSAP message did not reach the intended peer RNSAP entity.

# 7 Functions of RNSAP

The RNSAP protocol provides the following functions:

- Radio Link Management. This function allows the SRNC to manage radio links using dedicated resources in a DRNS;
- Physical Channel Reconfiguration. This function allows the DRNC to reallocate the physical channel resources for a Radio Link;
- Radio Link Supervision. This function allows the DRNC to report failures and restorations of a Radio Link;
- Compressed Mode Control [FDD]. This function allows the SRNC to control the usage of compressed mode within a DRNS;
- Measurements on Dedicated Resources. This function allows the SRNC to initiate measurements on dedicated resources in the DRNS. The function also allows the DRNC to report the result of the measurements;

- DL Power Drifting Correction [FDD]. This function allows the SRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links;
- DCH Rate Control. This function allows the DRNC to limit the rate of each DCH configured for the Radio Link(s) of a UE in order to avoid congestion situations in a cell;
- CCCH Signalling Transfer. This function allows the SRNC and DRNC to pass information between the UE and the SRNC on a CCCH controlled by the DRNS;
- GERAN Signalling Transfer. This function allows the SBSS and DBSS, the SRNC and DBSS or the SBSS and DRNC to pass information between the UE/MS and the SRNC/SBSS on an SRB2/CCCH controlled by the DBSS/DRNC;
- Paging. This function allows the SRNC/SBSS to page a UE in a URA/GRA or a cell in the DRNS;
- Common Transport Channel Resources Management. This function allows the SRNC to utilise Common Transport Channel Resources within the DRNS;
- Relocation Execution. This function allows the SRNC/SBSS to finalise a Relocation previously prepared via other interfaces;
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- DL Power Timeslot Correction [TDD]. This function enables the DRNS to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Measurements on Common Resources. This function allows an RNC/BSS to request from another RNC/BSS to initiate measurements on Common Resources. The function also allows the requested RNC/BSS to report the result of the measurements.
- Information Exchange. This function allows an RNC to request from another RNC the transfer of information. The function also allows the requested RNC to report the requested information.
- Resetting the Iur. This function is used to completely or partly reset the Iur interface.
- UE Measurement Forwarding[TDD]. This function allows the DRNC to request and receive UE measurements from the SRNC.
- Tracing. This function allows the SRNC to activate or deactivate trace in a DRNC.
- MBMS UE Linking/De-linking. This function allows the SRNC to provide/update/remove the UE Link to/in/from the DRNC.
- MBMS URA Linking/De-linking. This function allows the SRNC to provide/update/remove the URA Link to/in/from the DRNC.
- MBMS Channel Type Indication. This function allows the DRNC to indicate to the SRNC the selected channel type for an MBMS bearer service within certain cells in the DRNS.
- MBMS Preferred Frequency Layer Indication. This function allows the DRNC to indicate to the SRNC the preferred frequency layer for an MBMS bearer service within certain cells in the DRNS.
- Direct Information Transfer. This function allows an RNC to transfer information to another RNC.

The mapping between the above functions and RNSAP elementary procedures is shown in the Table 1.

Function	Elementary Procedure(s)
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-emptioni) Radio Link
	Activation j) Radio Link Parameter Update
Physical Channel Reconfiguration	Physical Channel Reconfiguration
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
Managements on Dadiastad Dasayraas	Cancellation
Measurements on Dedicated Resources	<ul><li>a) Dedicated Measurement Initiation</li><li>b) Dedicated Measurement Reporting</li></ul>
	c) Dedicated Measurement Termination
	d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
DCH Rate Control	a) Radio Link Setup
	b) Radio Link Addition
	c) Unsynchronised Radio Link Reconfiguration
	d) Synchronised Radio Link Reconfiguration
	Preparation
	e) Radio Link Congestion
CCCH Signalling Transfer	a) Uplink Signalling Transfer
	b) Downlink Signalling Transfer
GERAN Signalling Transfer	a) GERAN Uplink Signalling Transfer
Decing	b) Downlink Signalling Transfer
Paging Common Transport Channel Resources	Paging         a) Common Transport Channel Resources
Management	Initiation
Management	b) Common Transport Channel Resources
	Release
Relocation Execution	Relocation Commit
Reporting of General Error Situations	Error Indication
Measurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
	d) Common Measurement Failure
Information Exchange	a) Information Exchange Initiation
	b) Information Reporting
	c) Information Exchange Termination
DL Dowor Timoolot Correction (TDD)	d) Information Exchange Failure Downlink Power Timeslot Control
DL Power Timeslot Correction [TDD]	
Reset	Reset           a) UE Measurement Initiation
UE Measurement Forwarding[TDD]	b) UE Measurement Initiation b) UE Measurement Reporting
	c) UE Measurement Termination
	d) UE Measurement Failure
Trace	a) lur Invoke Trace
	b) lur Deactivate Trace

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

Function	Elementary Procedure(s)
MBMS UE Linking/De-linking	a) Common Transport Channel Resources
	Initiation
	b) Radio Link Setup
	c) Downlink Signalling Transfer
	d) MBMS Attach
	e) MBMS Detach
MBMS Channel Type Indication	a) Direct Information Transfer
	b) Uplink Signalling Transfer
	c) Radio Link Setup
	d) Radio Link Addition
	e) Common Transport Channel Resources
	Initiation
MBMS Preferred Frequency Layer Indication	a) Direct Information Transfer
	b) Radio Link Setup
	d) Radio Link Addition
MBMS URA Linking/De-linking	a) Downlink Signalling Transfer
	b) MBMS Attach
	c) MBMS Detach
Direct Information Transfer	a) Direct Information Transfer

# 7.1 RNSAP functions and elementary procedures for lur-g.

The functions and RNSAP elementary procedures, which are applicable on the Iur-g interface are shown in the Table 1A.

#### Table 1A: RNSAP elementary procedures applicable on the lur-g interface

Function	Elementary Procedure(s)	
GERAN Signalling Transfer	a) GERAN Uplink Signalling Transfer	
	b) Downlink Signalling Transfer	
Paging	Paging	
Relocation Execution	Relocation Commit	
Reporting of General Error Situations	Error Indication	
Measurements on Common Resources	a) Common Measurement Initiation	
	b) Common Measurement Reporting	
	c) Common Measurement Termination	
	d) Common Measurement Failure	
Information Exchange	a) Information Exchange Initiation	
	b) Information Reporting	
	c) Information Exchange Termination	
	d) Information Exchange Failure	

Note: In the connection with the functions related to the GERAN and UTRAN, the term RNC shall refer to RNC/BSS.

# 8 RNSAP Procedures

### 8.1 Elementary Procedures

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

Elementary	Initiating Message	Successful Outcome	Unsuccessful Outcome
Procedure	-	Response message	Response message
Radio Link Setup	RADIO LINK SETUP	RADIO LINK SETUP	RADIO LINK SETUP
-	REQUEST	RESPONSE	FAILURE
Radio Link	RADIO LINK	RADIO LINK	RADIO LINK ADDITION
Addition	ADDITION REQUEST	ADDITION	FAILURE
		RESPONSE	
Radio Link	RADIO LINK	RADIO LINK	
Deletion	DELETION REQUEST	DELETION	
		RESPONSE	
Synchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	PREPARE	READY	FAILURE
Preparation			
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Physical Channel	PHYSICAL CHANNEL	PHYSICAL CHANNEL	PHYSICAL CHANNEL
Reconfiguration	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
	REQUEST	COMMAND	FAILURE
Dedicated	DEDICATED	DEDICATED	DEDICATED
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION	INITIATION FAILURE
2		RESPONSE	
Common	COMMON	COMMON	COMMON TRANSPORT
Transport Channel	TRANSPORT	TRANSPORT CHANNEL	CHANNEL RESOURCES
Resources	RESOURCES	RESOURCES	FAILURE
Initialisation	REQUEST	RESPONSE	
Common	COMMON	COMMON	COMMON
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION	INITIATION FAILURE
Initiation	INTRATION REQUEST	RESPONSE	
Information	INFORMATION	INFORMATION	INFORMATION
Exchange	EXCHANGE	EXCHANGE	EXCHANGE INITIATION
Initiation	INITIATION REQUEST	INITIATION	FAILURE
		RESPONSE	
Reset	RESET REQUEST	RESET RESPONSE	
UE Measurement	UE MEASUREMENT	UE MEASUREMENT	UE MEASUREMENT
Initiation[TDD]	INITIATION REQUEST	INITIATION	INITIATION FAILURE
		RESPONSE	

Table 2: Class 1 Elementary Procee
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### Table 3: Class 2 Elementary Procedures

Elementary Procedure	Initiating Message
Uplink Signalling Transfer	UPLINK SIGNALLING TRANSFER
	INDICATION
GERAN Uplink Signalling Transfer	GERAN UPLINK SIGNALLING
	TRANSFER INDICATION
Downlink Signalling Transfer	DOWNLINK SIGNALLING
	TRANSFER REQUEST
Relocation Commit	RELOCATION COMMIT
Paging	PAGING REQUEST
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Commit	COMMIT
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Cancellation	CANCEL
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Dedicated Measurement Reporting	DEDICATED MEASUREMENT
	REPORT
Dedicated Measurement	DEDICATED MEASUREMENT
Termination	TERMINATION REQUEST
Dedicated Measurement Failure	DEDICATED MEASUREMENT
	FAILURE INDICATION

Elementary Procedure	Initiating Message
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Command [FDD]	COMPRESSED MODE COMMAND
Common Transport Channel	COMMON TRANSPORT CHANNEL
Resources Release	RESOURCES RELEASE REQUEST
Error Indication	ERROR INDICATION
Downlink Power Timeslot Control [TDD]	DL POWER TIMESLOT CONTROL REQUEST
Radio Link Pre-emption	RADIO LINK PREEMPTION REQUIRED INDICATION
Radio Link Congestion	RADIO LINK CONGESTION INDICATION
Common Measurement Reporting	COMMON MEASUREMENT REPORT
Common Measurement	COMMON MEASUREMENT
Termination	TERMINATION REQUEST
Common Measurement Failure	COMMON MEASUREMENT
	FAILURE INDICATION
Information Reporting	INFORMATION REPORT
Information Exchange Termination	INFORMATION EXCHANGE TERMINATION REQUEST
Information Exchange Failure	INFORMATION EXCHANGE
	FAILURE INDICATION
MBMS Attach	MBMS ATTACH COMMAND
MBMS Detach	MBMS DETACH COMMAND
Radio Link Parameter Update	RADIO LINK PARAMETER UPDATE
UE Measurement Reporting [TDD]	UE MEASUREMENT REPORT
UE Measurement Termination	UE MEASUREMENT TERMINATION
[TDD]	REQUEST
UE Measurement Failure [TDD]	UE MEASUREMENT FAILURE
lur Invoke Trace	IUR INVOKE TRACE
Iur Deactivate Trace	IUR DEACTIVATE TRACE
Direct Information Transfer	DIRECT INFORMATION TRANSFER

# 8.2 Basic Mobility Procedures

### 8.2.1 Uplink Signalling Transfer

### 8.2.1.1 General

The procedure is used by the DRNC to forward a Uu message received on the CCCH to the SRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.1.2 Successful Operation

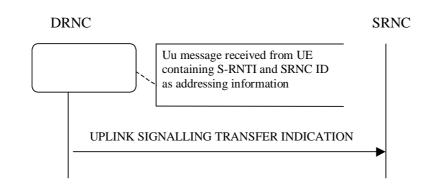


Figure 1: Uplink Signalling Transfer procedure, Successful Operation

When the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, DRNC shall send the UPLINK SIGNALLING TRANSFER INDICATION message to the SRNC identified by the SRNC-ID received from the UE.

If at least one URA Identity is being broadcast in the cell where the Uu message was received (the accessed cell), the DRNC shall include a URA Identity for this cell in the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the accessed cell, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received in the *URA Information* IE in the UPLINK SIGNALLING TRANSFER INDICATION message.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface in the accessed cell. If there is no valid C-RNTI for the UE in the accessed cell, the DRNS shall allocate a new C-RNTI for the UE [FDD - and in case Enhanced FACH operation is activated in the accessed cell the DRNC shall allocate the HS-DSCH-RNTI to the UE and shall include the *HS-DSCH-RNTI* IE in the message]. If the DRNS allocates a new C-RNTI it shall also release any C-RNTI previously allocated for the UE.

If the DRNS has any RACH and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and/or transport bearer are different from those in the old cell, then the DRNS shall not include the *Common Transport Channel Resources Initialisation Not Required* IE in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition the DRNS shall release these RACH and/or FACH resources in old cell.

If the DRNS has any RACH and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and transport bearer are the same as in the old cell, there is no need for Common Transport Channel Resources Initialisation to be initiated. In that case, DRNC may include the *Common Transport Channel Resources Initialisation Not Required* IE in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition, the DRNS shall move these RACH and/or FACH resources to the new cell. If no Common Transfer Channel Resources Initialisation procedure is executed, the currently applicable Mac SDU sizes, flow control settings (including credits) and transport bearer shall continue to be used while the UE is in the new cell.

If no context exists for this UE in the DRNC, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context, and include the *D-RNTI* IE and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, in which the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message. If the DRNC includes the *Cell GA Additional Shapes* IE in the UPLINK SIGNALLING TRANSFER INDICATION message, it shall also include the *Cell GAI* IE.

[FDD - The DRNC shall include the *DPC Mode Change Support Indicator* IE in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports DPC mode change.]

The DRNC shall include [FDD - the *Cell Capability Container FDD* IE] [3.84Mcps TDD - the *Cell Capability Container TDD* IE] [1.28Mcps TDD - the *Cell Capability Container TDD LCR* IE] [7.68Mcps TDD - the *Cell Capability Container 7.68Mcps TDD* IE] in the UPLINK SIGNALLING TRANSFER INDICATION message if the

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accessed cell supports any functionalities listed in [FDD - 9.2.2.D] [3.84Mcps TDD - 9.2.3.1a] [1.28Mcps TDD - 9.2.3.1b] [7.68Mcps TDD - 9.2.3.31].

If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of the concerned cell in the *Multiple PLMN List* IE in the UPLINK SIGNALLING TRANSFER INDICATION message.

If available, the DRNC shall include the SNA Information IE for the concerned cell.

When receiving the *SNA Information* IE, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

[FDD - The DRNC shall include the *Cell Portion ID* IE in the UPLINK SIGNALLING TRANSFER INDICATION message if available.]

[FDD – If the propagation delay value exceeds the range of the *Propagation Delay* IE then the DRNC shall if supported include the *Extended Propagation Delay* IE and set the *Propagation Delay* IE to its maximum value.]

If the *D-RNTI* IE is not to be included in the UPLINK SIGNALLING TRANSFER INDICATION message and the UE Link is currently stored in the UE Context in the DRNC, the DRNC shall assume that the UE changes the cell under which it camps in the DRNS (see ref. [50], section 5.1.6 on intra-DRNC cell change). In this case, if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *UC-ID* IE, the DRNC shall include in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE for each of these active MBMS bearer services are included, and the Uu message on the CCCH in which the short identities for MBMS Selected Services are included, and the Uu message requests for MBMS PtP radio bearer establishment, the DRNC shall determine which TMGIs correspond with the short identities and shall include in the *Active MBMS Bearer Service List* IE for each of these MBMS Selected Services.

If the CCCH message contains *Measurement results for monitored cells on non-used frequencies* IE in *Measured Result on RACH* IE, the DRNC may include in the UPLINK SIGNALLING TRANSFER INDICATION message the *Inter-frequency Cell List* IE for each of the measured inter-frequency cells. The order of cells in *Measurement results for monitored cells on non-used frequencies* IE in the CCCH message shall be preserved in *Inter-frequency Cell List* IE. If the *UL UARFCN* IE in the *Inter-frequency Cell List* IE is not present, the default duplex distance defined for the operating frequency band shall be used in the SRNC (see ref. [43]).

[3.84 Mcps TDD - the DRNC shall include the *Rx Timing Deviation* IE unless the cell to which the CCCH message was sent is configured to use the extended timing advance in which case *Rx Timing Deviation 3.84Mcps Extended* IE shall be included.]

[7.68 Mcps TDD - the DRNC shall include the Rx Timing Deviation 7.68Mcps IE.]

# 8.2.1.3 Abnormal Conditions

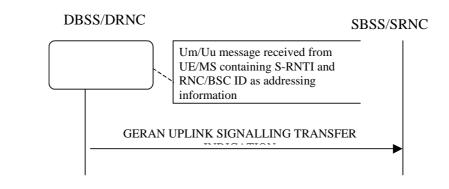
# 8.2.1A GERAN Uplink Signalling Transfer

# 8.2.1A.1 General

The procedure is used by the DBSS to forward an Um message received on the SRB2 to the SBSS/SRNC. The procedure is also used by the DRNC to forward a Uu message received on the CCCH to the SBSS.

This procedure shall use the connectionless mode of the signalling bearer.

# 8.2.1A.2 Successful Operation



# Figure 1A: GERAN Uplink Signalling Transfer procedure, Successful Operation

When the DBSS receives an Um message on the SRB2 in which the MS addressing information is G-RNTI, i.e. S-RNTI and BSC-ID, DBSS shall send the GERAN UPLINK SIGNALLING TRANSFER INDICATION message to the SBSS/SRNC identified by the BSC-ID received from the MS.

Alternatively, when the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, and in which the SRNC-ID points to a GERAN BSS, the DRNC shall send the GERAN UPLINK SIGNALLING TRANSFER INDICATION message to the SBSS identified by SRNC-ID received from the UE.

If at least one GRA/URA Identity is being broadcast in the cell where the Um/Uu message was received (the accessed cell), the DBSS/DRNC shall include a GRA/URA Identity for this cell in the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple GRA/URA Identities are being broadcast in the accessed cell, and the RNC/BSS Identity of all other RNC/BSSs that are having at least one cell within the GRA/URA where the Um/Uu message was received in the *URA Information* IE in the GERAN UPLINK SIGNALLING TRANSFER INDICATION message.

If no context exists for this UE/MS in the DBSS/DRNC, the DBSS/DRNC shall create a UE Context for this UE/MS, allocate a D-RNTI for the UE Context, and include the *D-RNTI* IE and the identifiers for the CN CS Domain and CN PS Domain that the DBSS/DRNC is connected to in the GERAN UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE/MS.

# 8.2.1A.3 Abnormal Conditions

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# 8.2.2 Downlink Signalling Transfer

# 8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

This procedure shall use the connectionless mode of the signalling bearer.

# 8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

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# 8.2.2.2 Successful Operation



Figure 2: Downlink Signalling Transfer procedure, Successful Operation

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (C-ID) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD - USCH and/or DSCH]) allocated for the UE, the DRNS shall release the D-RNTI, the UE Context and any RACH and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message. If a UE Link is currently stored in the UE Context, the DRNC shall perform UE De-linking as specified in [50], section 5.1.6.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *MBMS Bearer Service List* IE is included and *URA-ID* IE is not included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6.

If the *MBMS Bearer Service List* IE is included and the *URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the URA Linking as specified in [50], section 5.1.10.

If the *MBMS Bearer Service List* IE is included and the *Old URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform URA De-linking for the URA identified by the *Old URA-ID* IE as specified in [50], section 5.1.10.

[FDD - If the *Enhanced PCH Capability* IE is included in the message, the DRNC should store the information. If the *Enhanced PCH Capability* IE is not included in the message, the DRNC shall use the information to release an RRC Connection for the UE in cells supporting Enhanced PCH.]

# 8.2.2.2.1 Successful Operation for lur-g

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC/SBSS to the DBSS or by the SBSS to the DRNC.

The message contains the Cell Identifier (C-*ID*) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DBSS shall send the L3 Information on the SRB2 in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

# 8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

# 8.2.2.3.1 Abnormal Conditions for lur-g

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC/DBSS than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

If the DRNC receives from the SBSS the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DRNC shall ignore this IE and release the D-RNTI.

If the DBSS receives from the SBSS/SRNC the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DBSS shall ignore this IE and release the D-RNTI.

# 8.2.3 Relocation Commit

# 8.2.3.1 General

The Relocation Commit procedure is used by source RNC to execute the Relocation. This procedure supports the Relocation procedures described in [2].

This procedure shall use the signalling bearer mode specified below.

# 8.2.3.2 Successful Operation



# Figure 3: Relocation Commit procedure, Successful Operation

The source RNC sends the RELOCATION COMMIT message to the target RNC to request the target RNC to proceed with the Relocation. When the UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D-RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receipt of the RELOCATION COMMIT message from the source RNC the target RNC finalises the Relocation. If the message contains the transparent *RANAP Relocation Information* IE the target RNC shall use this information when finalising the Relocation.

# 8.2.3.2.1 Successful Operation for lur-g

The source RNC/BSS sends the RELOCATION COMMIT message to the target RNC/BSS to request the target RNC/BSS to proceed with the Relocation.

The message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE/MS context in the DBSS.

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Upon receipt of the RELOCATION COMMIT message from the source RNC/BSS, the target RNC/BSS finalises the Relocation. If the message contains the transparent *RANAP Relocation Information* IE the target RNC/BSS shall use this information when finalising the Relocation.

# 8.2.3.3 Abnormal Conditions

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# 8.2.4 Paging

# 8.2.4.1 General

This procedure is used by the SRNC to indicate to a CRNC that a UE shall be paged in a cell or URA that is under the control of the CRNC.

This procedure shall use the connectionless mode of the signalling bearer.

# 8.2.4.2 Successful Operation



# Figure 4: Paging procedure, Successful Operation

The procedure is initiated with a PAGING REQUEST message sent from the SRNC to the CRNC.

If the message contains the *C-ID* IE, the CRNC shall page in the indicated cell. Alternatively, if the message contains the *URA-ID* IE, the CRNC shall page in all cells that it controls in the indicated URA.

If the PAGING REQUEST message includes the *CN Originated Page to Connected Mode UE* IE, the CRNC shall include the information contained in the *CN Originated Page to Connected Mode UE* IE when paging the UE.

The CRNC shall calculate the Paging Occasions from the *IMSI* IE and the *DRX Cycle Length Coefficient* IE according to specification in ref. [15] and apply transmission on PICH and PCH [FDD - or HS-DSCH] accordingly.

[FDD - If the PAGING REQUEST message includes the *Enhanced PCH Capability* IE, the CRNC shall use the information to page the UE in cells supporting Enhanced PCH.]

# 8.2.4.2.1 Successful Operation for lur-g

The procedure is initiated with a PAGING REQUEST message sent from the SBSS to the CRNC/CBSS or from the SRNC to the CBSS.

If the message contains the URA-ID IE, the CRNC/CBSS shall page in all cells that it controls in the indicated URA/GRA.

If the PAGING REQUEST message includes the *CN Originated Page to Connected Mode UE* IE, the CRNC/CBSS shall include the information contained in the *CN Originated Page to Connected Mode UE* IE when paging the UE.

The CBSS shall calculate the Paging Occasions from the *IMSI* IE and the *GERAN DRX Cycle Length Coefficient* IE according to specification in ref. [36] and apply transmission on PCCCH or PACCH accordingly.

# 8.2.4.3 Abnormal Conditions

# 8.2.4.3.1 Abnormal Conditions for lur-g

If the DRNC receives a PAGING REQUEST message from the SBSS, which contains the *C-ID* IE, the message shall be ignored.

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If the DBSS receives a PAGING REQUEST message from the SBSS/SRNC, which contains the *C-ID* IE, the message shall be ignored.

# 8.3 Dedicated Procedures

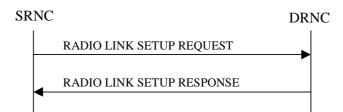
# 8.3.1 Radio Link Setup

# 8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

# 8.3.1.2 Successful Operation



## Figure 5: Radio Link Setup procedure: Successful Operation

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific UE-UTRAN connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request establishment of the radio link(s). The Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS 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 DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

## **Transport Channels Handling:**

#### DCH(s):

[TDD - If the *DCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DCHs 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 DRNS shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs.

If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS 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 DRNS 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 each DCH which do not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical

channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]

For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD - If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD - If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD - If no Transport channel BER is available for the selected DCH, the DRNS shall use 0 for the QE, ref. [4].]

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

The DRNS 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.

The DRNS 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.

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

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 DRNS to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.

If the *DCH Information* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the Guaranteed Rate in the uplink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to only reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the DCH Specific Info IE in the DCH Information IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the Guaranteed Rate in the downlink of this DCH. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to only reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

[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 DRNC 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 DRNC establishes a transport bearer for the concerned DCH, the DRNC 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 DRNC does not establish a transport bearer for the concerned DCH, the DRNC 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 included in the RADIO LINK SETUP REQUEST message, the DRNC shall establish the requested DSCHs. If the *Transport Layer Address* IE and *Binding ID* IE are included in the DSCH Information IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DSCH. In addition, the DRNC shall send a valid set of DSCH Scheduling Priority IE and MAC-c/sh SDU Length IE parameters to the SRNC in the RADIO LINK SETUP RESPONSE message. If the PDSCH RL ID IE indicates a radio link in the DRNS, then the DRNC shall allocate a DSCH-RNTI to the UE Context and include the DSCH-RNTI IE in the RADIO LINK SETUP RESPONSE message.]

[TDD – If the *DSCH Information* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[TDD – The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK SETUP RESPONSE message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

[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 DRNS 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 - The DRNS shall use the list of RB Identities in the *RB Info* IE in the *USCH information* IE to map each *RB Identity* IE to the corresponding USCH. If the *Transport Layer Address* IE and *Binding ID* IE are included in the *USCH Information* IE the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the USCH.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD - If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message and contains the *TNL QoS* IE, and if ALCAP is not used, the DRNS 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 included in the RADIO LINK SETUP REQUEST message, the DRNS shall establish the requested USCHs, and the DRNC shall provide the [3.84 Mcps TDD - USCH Information Response IE] [1.28 Mcps TDD - USCH Information Response LCR IE] [7.68 Mcps TDD - USCH Information Response 7.68 Mcps IE] in the RADIO LINK SETUP RESPONSE message.]

## [TDD - CCTrCH Handling:]

[TDD - If the *UL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

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

[TDD - If the *DL CCTrCH Information* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the *TPC CCTrCH List* IE is present in the RADIO LINK SETUP REQUEST message, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

### HS-DSCH:

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

- The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC 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 DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK SETUP RESPONSE message.
- The DRNC 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 DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- 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 DRNS 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 DRNS 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 DRNS 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 DRNC 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 DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32]. If RADIO LINK SETUP REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to the value "Flexible MAC-d PDU Size", then DRNC 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 recieved 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 DRNS 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 The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall 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 DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD - HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information Response IE] [1.28 Mcps TDD - HS-PDSCH Timeslot Specific Information Response LCR IE] [7.68 Mcps TDD - HS-PDSCH Timeslot Specific Information Response IE] in the HS-DSCH Information Response IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD 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 DRNS 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 DRNC 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 DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the RADIO LINK SETUP RESPONSE message.]
- 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 DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels [32] and MAC-hs [41].
- [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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC 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 DRNS 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 SRNC.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* 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 DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS 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 DRNS 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 [41] for HS-DSCH Transport Block Size signalling.]
- [FDD The DRNS shall include the *SixtyfourQAM DL Support Indicator* 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 Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS 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 DRNS 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 DRNS 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 DRNS shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the 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 then:]

- [FDD The DRNS 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 DRNS 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 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 DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. The DRNC 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 DRNC 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 DRNC establishes a transport bearer for the concerned E-DCH MAC-d flow, the DRNC 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 DRNC does not establish a transport bearer for the concerned E-DCH MAC-d flow, the DRNC 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 The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 MAC-d Flow Specific Information* IE in the *E-DCH FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]

- [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 DRNS 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 DRNS 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" for an E-DCH MAC-d flow the DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD If the *TNL QoS* IE is included for a E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD The DRNC may include the *E-AGCH and E-RGCH and E-HICH FDD Scrambling Code* IE and shall include the *E-RGCH and E-HICH Channelisation Code* IE and the corresponding *E-HICH Signature Sequence IE* and the DRNC 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 *E-DCH ReferencePower Offset* IE, then the DRNS 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 DRNS 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 contains the *Serving E-DCH RL* IE indicating that the Serving E-DCH RL is in this DRNS:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both 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 *RL Information Response* IE for the indicated RL in the RADIO LINK SETUP RESPONSE message.]
  - [FDD The DRNS 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 DRNS 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 If a serving cell change is performed the RADIO LINK SETUP RESPONSE message may contain invalid data (see 9.2.2.4C).]
- [FDD If the DRNS has no valid data for the *E-RGCH and E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK SETUP RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH and E-HICH Channelisation Code* IE contains invalid data.]
- [FDD The DRNS 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 a 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 SRNC.]
- [FDD If the RADIO LINK SETUP REQUEST message includes the *SixteenQAM UL Operation Indicator* IE, the DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]

## [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 DRNS shall ignore the *DCH Information* IE in the RADIO LINK SETUP REQUEST message.]

### **Physical Channels Handling:**

## [FDD - Compressed Mode:]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS 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 DRNS until the next Compressed Mode Configuration is configured in the DRNS or the last Radio Link is deleted.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS 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 DRNS 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 DRNS 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 DRNS 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 *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 and the UE Context is configured to use DPCH in the downlink, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[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 UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the information provided by the *Downlink Compressed Mode Method* IE if included for the concerned Transmission Gap Pattern Sequence(s).]

#### [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 [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 – Phase Reference Handling:]

[FDD – If Primary CPICH is not to be used as a Phase Reference for this Radio Link, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

[FDD – If Secondary CPICH may be used as a Phase Reference for this Radio Link, the DRNC shall include the *Secondary CPICH Information* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD – If the DRNC doesn't include the *Secondary CPICH Information* IE in the RADIO LINK SETUP RESPONSE message, it shall not include the *Primary CPICH Usage For Channel Estimation* IE set to the value "Primary CPICH shall not be used" in the RADIO LINK SETUP RESPONSE message.]

#### General:

[FDD - If the *Propagation Delay* IE and optionally the *Extended Propagation Delay* IE are included, the DRNS may use this information to speed up the detection of UL synchronisation on the Uu interface.]

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

[TDD - If the RADIO LINK SETUP REQUEST message includes the [1.28 Mcps TDD and 3.84 Mcps TDD - *Maximum Number of DL Physical Channels per Timeslot* IE] [7.68 Mcps TDD - *Maximum Number of DL Physical Channels per Timeslot* 7.68 Mcps IE] the DRNC shall take this value into account when allocating physical resources, otherwise the DRNC can assume that this UE capability is consistent with the other signalled UE capabilities.]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Support for 8PSK* IE within the *DL Physical Channel Information* IE *or UL Physical Channel Information* IE, the DRNC shall take this into account in the specified direction when allocating physical resources, otherwise the DRNC can assume that this UE does not support 8PSK resource allocation.]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the *Support for PLCCH* IE within the *DL Physical Channel Information* IE, the DRNC shall take this into account when allocating PLCCH sequence numbers, otherwise the DRNC can assume that this UE does not support PLCCH.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DL DPCH Information* IE, then the DRNS shall configure the concerned UE 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:]

- [FDD The DRNS shall configure the concerned UE Context to use F-DPCH in the downlink, i.e. with transmission of only the TPC field.]
- [FDD If the *F-DPCH Information* IE includes the *F-DPCH Slot Format Support Request* IE, then the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to [8] and include the *F-DPCH Slot Format* IE in the RADIO LINK SETUP RESPONSE message. If the *F-DPCH Information* IE includes the *F-DPCH Slot Format* IE, the DRNC may use the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

#### [FDD - E-DPCH Handling:]

[FDD - If the UL DPDCH Indicator for E-DCH operation IE is included in the UL DPCH Information IE and 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 - Continuous Packet Connectiviy Handling:]

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

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to [10].]
- [FDD If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity 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 DRNS 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 DRNS 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 DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK SETUP RESPONSE message.]

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

#### **Diversity Combination Control:**

[FDD - The *Diversity Control Field* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not.]

- [FDD If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.]
- [FDD If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL.]
- [FDD If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD - When an RL is to be combined, the DRNS shall choose which RL(s) to combine it with.]

[FDD - The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

[FDD - In the RADIO LINK SETUP RESPONSE message, the DRNC 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, the DRNC shall]
  - [FDD in case of requested DCHs, 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 in case of requested DCHs, 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 in case of a requested E-DCH, include in the *E-DCH FDD Information Response* IE in the RADIO LINK SETUP RESPONSE for which the *Transport Bearer Not Requested Indicator* IE was not included message the *Binding ID* IE and the *Transport Layer Address* IE for the establishment of transport bearers for every E-DCH MAC-d flow being established.]
  - [FDD in case of a requested E-DCH, 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 and if the ALCAP is not used, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL SpecificE- DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall be regarded as the RL with which the concerned E-DCH RL is combined and if the ALCAP is not used, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL SpecificE- DCH Information* IE included in the *RL Information* IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall not be used.]

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH and USCH of the RL.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer the *Binding ID* IE and the *Transport Layer Address* IE shall be included in the RADIO LINK SETUP RESPONSE message 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 - Transmit Diversity:]

[FDD - If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

[FDD - When the *Diversity Mode* IE is set to "STTD", or "Closed loop mode1", the DRNC shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the *Transmit Diversity Indicator* IE.]

## **DL Power Control:**

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. If the value of the *Initial DL TX Power* IE is outside the configured DL TX power range, the DRNS shall apply these constraints when setting the initial DL TX power. The DRNS shall also include the configured DL TX power range defined by

*Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when 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 both the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not included in the RADIO LINK SETUP REQUEST message, then DRNC shall determine the initial Uplink SIR Target and include it in the *Uplink SIR Target* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall use the *Uplink SIR Target CCTrCH* IEs in the RADIO LINK SETUP RESPONSE message to indicate for any UL CCTrCH an Uplink SIR Target value in case this is deviating from the value included in the *Uplink SIR Target* IE specified for the Radio Link. If in any [3.84Mcps TDD - *UL CCTrCH Information* IE] [1.28Mcps TDD - *UL CCTrCH Information LCR* IE] [7.68Mcps TDD - *UL CCTrCH Information 7.68 Mcps* IE] the *Uplink SIR Target CCTrCH* IE is not included, the value of the *Uplink SIR Target* IE shall apply to the respective UL CCTrCH.]

[FDD - If the *Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL TX Power. If the *Enhanced Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL Tx Power.]

[TDD - If [3.84Mcps TDD and 7.68 Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is present, the DRNSshould use the indicated value when deciding the Initial DL TX Power for the Radio Link. The DRNS shall use the indicated DL Timeslot ISCP when determining the initial DL power per timeslot as specified in [22], 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.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS should assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], 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 DRNS should assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value when deciding the Initial DL TX Power for the Radio Link.]

[3.84 Mcps TDD and 7.68 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/CCTrCH Maximum DL TX Power IE or lower than indicated by the appropriate Minimum DL TX Power IE/CCTrCH Minimum DL TX Power IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE within the *DL Timeslot Information LCR* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

[1.28McpsTDD - If the *TSTD Support Indicator* IE is present, the DRNS shall apply this information when configuring the transmit diversity for the new radio link.]

[FDD - The DRNS shall start any DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code or on the F-DPCH of a RL until UL synchronisation is achieved on the Uu interface for the concerned RLS or Power Balancing is activated. No inner loop power control or power 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 8.3.15).]

[TDD - The DRNS shall start any DL transmission using the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved on the Uu interface for the concerned RL. No inner loop power control shall be performed during this period. Then after UL synchronisation, the DL power shall vary according to the inner loop power control (see ref. [22] subclause 4.2.3.3).]

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC 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]).]

[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 DRNS shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.15, using the *DL Power Balancing Information* IE. If the DRNS 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 TX Power* IE (if received) or the decided DL TX power level on each DL channelisation code of a RL based on the *Primary CPICH Ec/No* IE or the *Enhanced Primary CPICH Ec/No* IE.]

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

#### **Neighbouring Cell Handling:**

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE, the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Colocation Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE for the set to "Case1", the DRNC shall include the *Time Slot For SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- If the information is available, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise the *Restriction State Indicator* IE may be absent. The DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC

in the Neighbouring FDD Cell Information IE, the Neighbouring TDD Cell Information IE and the Neighbouring TDD Cell Information LCR IE.

- If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of the concerned neighbouring cells in the *Multiple PLMN List* IE in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *Frequency Band Indicator* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Neighbouring GSM Cell Information* IE for each of the GSM neighbouring cells. If available the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information* IE. If available the DRNC shall also include in the RADIO LINK SETUP RESPONSE message the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK SETUP RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK SETUP RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

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

[1.28Mcps TDD - If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC 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 - Uplink Timing Advance Control LCR:]

[1.28Mcps TDD - The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK SETUP RESPONSE message.]

## [1.28Mcps TDD - PowerControl GAP:]

[1.28Mcps TDD - If applied in the DRNS, the DRNC shall include the *PowerControl GAP* IE in the RADIO LINK SETUP RESPONSE message.]

#### **MBMS Handling:**

If the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6. If the UE Link is currently stored in the UE Context or the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message and if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK SETUP REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK SETUP RESPONSE message.

If the UE Link is currently stored in the UE Context or the *MBMS Bearer Service List* IE is included in the RADIO LINK SETUP REQUEST message and if an MBMS preferred frequency layer for some active MBMS bearer services contained in the UE Link is set in some of the cells identified by the *C-ID* IEs in the RADIO LINK SETUP REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Preferred Frequency Layer* IE in the concerned *RL Information Response* IEs in the RADIO LINK SETUP REQUE to LINK SETUP READIO LINK SETUP READIO

#### General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD - for every DCH being established for which the *Transport Bearer Not Requested Indicator* IE was not included].

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

[1.28 Mcps TDD - If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC could include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE.]

[FDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Primary Scrambling Code* IE, the *UL UARFCN* IE and the *DL UARFCN* IE.]

[TDD - If the *D*-*RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD and 7.68 Mcps TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot* For SCH IE.]

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD - The DRNC shall include the Secondary CCPCH Info 7.68Mcps TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info 7.68Mcps TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and at least one DCH is configured for the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the *URA Information* IE within the RADIO LINK SETUP RESPONSE message URA Innformation for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not

multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEsof all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNS shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Cell Portion ID* IE, the DRNS shall use this information when it decides to use beamforming for the new RL.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS 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 DRNS 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 *D*-*RNTI* IE which already has a RL and *Synchonisation Indicator* IE, the DRNC shall ignore the value in the *Frame Offset* IE and *Chip Offset* IE in the RADIO LINK SETUP REQUEST message and shall include in the *Frame Offset* IE and *Chip Offset* IE the values used for already established RL in the RADIO LINK SETUP RESPONSE message.]

#### [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 DRNS shall use the *First RLS Indicator* IE 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 DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Set(s) shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE 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 oout-of-sync algorithm defined in ref. [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 DRNS would contain the E-DCH serving RL, the DRNS 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 SRNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

## [TDD- E-DCH:]

[TDD – If the [3.84Mcps - *E-DCH Information* IE][1.28Mcps – *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 DRNS 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 DRNS 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 DRNC may use the transport layer address and the binding identifier received from the SRNC 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 DRNS 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 DRNS shall assume nonscheduled grants are configured for that E-DCH MAC-d flow.]
- [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 DRNS 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 DRNS shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [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 DRNS 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 DRNS 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.]
- [3.84Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information 7.68Mcps* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]

- [1.28Mcps TDD If the RADIO LINK SETUP REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information LCR* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [TDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.]
- [TDD If the RADIO LINK SETUP REQUEST message includes the [3.84Mcps TDD E-DCH TDD Information IE][1.28Mcps TDD - E-DCH TDD Information LCR IE] in the E-DCH MAC-d Flows Information TDD IE, then the DRNS 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 DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [3.84Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK SETUP RESPONSE message.]
- [3.84Mcps TDD The DRNS 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 SETUP RESPONSE message.]
- [1.28Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]
- [1.28Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier, the E-AGCH(s) and E-HICH(s) assigned in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK SETUP RESPONSE message.]
- [7.68Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps TDD IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK SETUP RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK SETUP RESPONSE message.]

## **Response Message:**

Upon receipt of the RADIO LINK SETUP REQUEST message, the DRNS allocates the requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH, for each set of co-ordinated DCHs [TDD - and for each DSCH and USCH]. This information shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message when all the RLs have been successfully established.

[1.28 Mcps TDD – if the DRNS assigns one or more PLCCH sequence numbers to the radio link, then the PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK SETUP RESPONSE message.]

After sending the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL.

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

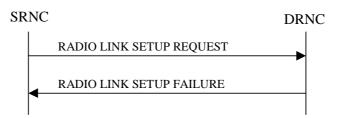
- [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

For each RL for which the *Delayed Activation* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS 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 ref. [4], 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 ref. [4].]

## 8.3.1.3 Unsuccessful Operation



## Figure 6: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the DRNC shall respond with a RADIO LINK SETUP FAILURE message. The DRNC shall include in the RADIO LINK SETUP FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

If the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall reject the procedure and send the RADIO LINK SETUP FAILURE message.

[FDD - If the RL identified by the *HS-PDSCH RL ID* IE is a radio link in the DRNS and this RL is successfully established, then the DRNC shall allocate a HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE, the *HS-DSCH FDD Information Response* IE and the *SixtyfourQAM DL Support Indicator* IE in the RADIO LINK SETUP FAILURE message.]

Typical cause values are:

#### **Radio Network Layer Causes:**

- [FDD UL Scrambling Code Already in Use;]
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- [FDD Combining Resources not available;]
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported;]
- Power Level not Supported;
- Number of DL codes not supported;
- Number of UL codes not supported;
- Dedicated Transport Channel Type not Supported;

- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported;]
- [FDD UL Spreading Factor not Supported;]
- [FDD DL Spreading Factor not Supported;]
- CM not Supported;
- [FDD DPC mode change not Supported;]
- Cell reserved for operator use;
- Delayed Activation not supported;
- E-DCH not supported;
- [FDD F-DPCH not supported;]
- [FDD Continuous Packet Connectivity DTX-DRX operation not Supported;]
- [FDD Continuous Packet Connectivity HS-SCCH less operation not Supported;]
- [FDD MIMO not supported;]
- [FDD E-DCH TTI2ms 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 SixteenQAM UL not Supported;]
- HS-DSCH MAC-d PDU Size Format not supported;
- [FDD F-DPCH Slot Format operation not supported.]

#### **Transport Layer Causes:**

- Transport Resource Unavailable.

## Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- Not enough User Plane Processing Resources.

# 8.3.1.4 Abnormal Conditions

If the DRNC receives either an S-RNTI or a D-RNTI which already has RL(s) established [FDD – and the *Synchronisation Indicator* IE is not included in the RADIO LINK SETUP message,] the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

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

[FDD - If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC 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 DRNS shall reject the Radio Link Setup procedure and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD - If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall reject the Radio Link Setup procedure and shall respond with the 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 DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC 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 included in the *RL Information* IE for a specific RL and [FDD - the transport bearer for this DCH is already established and] the *Diversity Control Field* IE is set to "Must", the DRNC shall reject the Radio Link Setup procedure and the DRNC shall 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 nor *RL Specific E-DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the DRNC 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 DRNC shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Setup procedure and the DRNC shall respond with 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 DRNC 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 DRNC 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 DRNC 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 DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

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

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Synchronisation Indicator* IE for a RL, but does not contain the *D-RNTI* IE which already has the RL, the DRNC 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 DRNC 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 DRNC 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 DRNC 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 DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

# 8.3.2 Radio Link Addition

# 8.3.2.1 General

This procedure is used for establishing the necessary resources in the DRNS for one [FDD – or more] additional RLs towards a UE when there is already at least one RL established to the concerned UE via this DRNS.

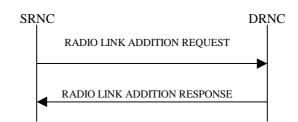
This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

[TDD - The Radio Link Addition procedure serves to establish a new Radio Link with the DSCH and USCH included, if they existed before.]

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# 8.3.2.2 Successful Operation



## Figure 7: Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNS 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 DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

## **Transport Channel Handling:**

[3.84 Mcps TDD - The DRNC shall include the *UL/DL DPCH Information* IE within the *UL/DL CCTrCH Information* IE for each CCTrCH that requires DPCHs.]

[1.28 Mcps TDD - The DRNC shall include the UL/DL DPCH Information LCR IE within the UL/DL CCTrCH Information LCR IE for each CCTrCH that requires DPCHs.]

[7.68 Mcps TDD - The DRNC shall include the *UL/DL DPCH Information* 7.68 Mcps IE within the *UL/DL CCTrCH Information* 7.68 Mcps IE for each CCTrCH that requires DPCHs.]

## [TDD - DSCH:]

[3.84 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* IE for each DSCH.]

[1.28 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response LCR* IE for each DSCH.]

[7.68 Mcps TDD - If the radio link to be added includes a DSCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *DSCH Information Response* 7.68 Mcps IE for each DSCH.]

## [TDD - USCH:]

[3.84 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* IE for each USCH.]

[1.28 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a USCH Information Response LCR IE for each USCH.]

[7.68 Mcps TDD - If the radio link to be added includes any USCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a *USCH Information Response* 7.68 *Mcps* IE for each USCH.]

## **Physical Channels Handling:**

#### [FDD -Compressed Mode:]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS 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 DRNS 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 DRNS 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 DRNS 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 ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.]

[FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

[FDD - If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS and the UE Context is configured to use DPCH in the downlink, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code.]

#### [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 [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 DRNS 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 Uplink Step Size* IE, the DRNS 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 DRNS 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 Downlink Step Size* IE, the DRNS 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.]

#### General:

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

# **Radio Link Handling:**

## **Diversity Combination Control:**

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur.

- If the *Diversity Control Field* IE is set to "May" (be combined with another RL), the DRNS shall decide for any of the alternatives.
- If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

- If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

[FDD - The *Diversity Control Field* IE is only applicable for DCHs, in case of E-DCH it shall always be assumed to be set to "May".]

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 DRNC 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 DRNC 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 the *Transport Bearer Not Setup Indicator* IE for every DCH or set of co-ordinated DCHs 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 - In case of not combining E-DCH, the *E-DCH FDD Information Response* IE shall be included in the RADIO LINK ADDITION RESPONSE message containing the *Binding ID* IE and the *Transport Layer Address* IE for the establishment of transport bearers for every E-DCH MAC-d flow being established for which the *Transport Bearer Not Requested Indicator* IE was not included.]

[FDD - In case of not combining E-DCH, the DRNC shall include in the RADIO LINK ADDITION RESPONSE 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 ADDITION REQUEST message.]

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 DRNC shall indicate with the Diversity Indication in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message that the RL is combined. 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 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.

[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 and if the ALCAP is not used, the *Transport Layer Address* IE and the *Binding ID* IE in the *RL Specific E-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 case E-DCH RL is established for the first time, the DRNC shall include *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.]

[TDD - The DRNC shall always 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 of the RL.]

In the case of a set of co-ordinated DCHs, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Binding ID* IE and the *Transport Layer Address* IE for only one of the DCHs in the set of co-ordinated DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included].

If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

### [FDD - Transmit Diversity:]

[FDD - The DRNS shall activate any feedback mode diversity according to the received settings.]

[FDD - If the cell in which the RL is being added is capable to provide Close loop Tx diversity, the DRNC shall indicate the Closed loop timing adjustment mode of the cell by including the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - When the *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity for each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

## **DL Power Control:**

[FDD - If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH Ec/No* IE measured by the UE are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

[TDD - If [3.84Mcps TDD and 7.68 Mcps TDD - the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - the *DL Time Slot ISCP Info LCR* IE] is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], 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 DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS shall use it in the calculation of the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP* IE, *Primary CCPCH RSCP Delta* IE, [3.84Mcps TDD and 7.68 Mcps TDD - and the *DL Time Slot ISCP Info* IE] [1.28Mcps TDD - and the *DL Time Slot ISCP Info LCR* IE] are not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CCPCH power used by the existing RL.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop power control or power 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 8.3.7).]

[TDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that 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).]

[3.84 Mcps TDD and 7.68 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/*CCTrCH Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/*CCTrCH Minimum DL TX Power* IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD - The DL TX power upper and lower limit is configured in the following way: The DRNC shall include the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK ADDITION RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* within the *DL Timeslot Information LCR* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or l

[FDD - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC 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 ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. The DRNS shall not transmit with a power higher than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH [FDD - or on the F-DPCH] of the RL [FDD - except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when the  $\partial P_{curr}$ , 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 power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the DRNS 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 by the DRNS, according to subclause 8.3.15. In this case, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message. If the DRNS 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 which is calculated based on the *Primary CPICH Ec/No* IE (if received), or to the power level which is calculated based on the power relative to the Primary CPICH power used by the existing RLs.]

## **UL Power Control:**

The DRNC shall also provide the configured UL Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

## **Neighbouring Cell Handling:**

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE, *Coverage Indicator* IE, *Antenna Colocation Indicator* IE and *HCS Prio* IE in the *Neighbouring TDD Cell Information* IE or the *Neighbouring TDD Cell Information LCR* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case1", the DRNC shall include the *Time SlotFor SCH* IE in the *Neighbouring TDD Cell Information* IE. If the *Neighbouring TDD Cell Information* IE includes the *Sync Case* IE set to "Case2", the DRNC shall include the *SCH Time Slot* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include in the RADIO LINK ADDITION RESPONSE message the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.

- [FDD The DRNC shall include in the RADIO LINK ADDITION RESPONSE message the *DPC Mode Change Support Indicator* IE for each neighbour cell in the *Neighbouring FDD Cell Information* IE if this information is available.]
- The DRNC shall include the *Cell Capability Container FDD* IE, the *Cell Capability Container TDD* IE, *Cell Capability Container 7.68Mcps TDD* IE and/or the *Cell Capability Container TDD LCR* IE if the DRNC is aware that the neighbouring cell supports any functionality listed in 9.2.2.D, 9.2.3.1a and 9.2.3.1b.
- For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK ADDITION RESPONSE message the restriction state of those cells, otherwise *Restriction State Indicator* IE may be absent. The DRNC shall include the *Restriction State Indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If MOCN or GWCN network sharing configuration is used then the DRNC shall include the broadcasted PLMN identities of concerned neighbouring cells in the *Multiple PLMN List* IE in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.
- If available, the DRNC shall include the *Frequency Band Indicator* IE for the concerned neighbouring cells in the *Neighbouring FDD Cell Information* IE.

If there are GSM neighbouring cells to the cell(s) in which a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, and if the *Cell Individual Offset* IE alone cannot represent the value of the offset, the DRNC shall also include the *Extended GSM Cell Individual Offset* IE in the *Neighbouring GSM Cell Information IE*. If available the DRNC shall also include the *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE. If available, the DRNC shall also include the *SNA Information* IE for the concerned neighbouring cells in the *Neighbouring GSM Cell Information* IE.

When receiving the *SNA Information* IE in the RADIO LINK ADDITION RESPONSE message, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

If there are GERAN neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *GERAN Cell Capability* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN cells.

If there are GERAN Iu-mode neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include, if available, the *GERAN Classmark* IE in the *Neighbouring GSM Cell Information* IE that is included in the RADIO LINK ADDITION RESPONSE message for each of the GERAN Iu-mode neighbouring cells. Ref. [39] defines when the transmission of the *GERAN Classmark* IE will be required at the initiation of the Relocation Preparation procedure.

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

[1.28Mcps TDD - If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC 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 - Uplink Timing Advance Control LCR:]

[1.28Mcps TDD - The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [1.28Mcps TDD - PowerControl GAP:]

[1.28Mcps TDD - If applied in the DRNS, the DRNC shall include the *PowerControl GAP* IE in the RADIO LINK ADDITION RESPONSE message.]

## **MBMS Handling:**

If the UE Link is currently stored in the UE Context and an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in some of the cells identified by the *C-ID* IEs in the RADIO LINK ADDITION REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE in the concerned *RL Information Response* IEs in the RADIO LINK ADDITION RESPONSE message.

If the UE Link is currently stored in the UE Context and an MBMS preferred frequency layer for some active MBMS bearer services contained in the UE Link is set in some of the cells identified by the *C-ID* IEs in the RADIO LINK ADDITION REQUEST message, the DRNC shall include for each of these active MBMS bearer services in the *Active MBMS Bearer Service List* IE the *Preferred Frequency Layer* IE in the concerned *RL Information Response* IEs in the RADIO LINK ADDITION RESPONSE message.

#### General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC 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 DRNC 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 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 DRNC establishes a transport bearer for the concerned DCH, the DRNC 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 DRNC does not establish a transport bearer for the concerned DCH, the DRNC shall include the *Transport Bearer Not Setup Indicator* IE for the corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the *RNC-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH Information Response IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD - The DRNC shall include the Secondary CCPCH Info 7.68 Mcps TDD IE in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the Secondary CCPCH Info 7.68 Mcps TDD IE in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response 7.68 Mcps IE or USCH Information Response 7.68 Mcps IE is included in the message and the SHCCH message for USCH Information Response 7.68 Mcps IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK ADDITION RESPONSE message.

The DRNS shall start receiving 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 DRNS 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 DRNS 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 DRNS shall use synchronisation procedure B according to subclause 4.3.2.4 in [10]. The DRNS 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 UE Context is configured for F-DPCH Slot Format operation, then the DRNS shall include the *F-DPCH Slot Format* IE in the RADIO LINK ADDITION RESPONSE message.]

#### [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 DRNS shall assign to the RL a unique value for the *RL Set ID* IE which uniquely identifies the RL as an RL Set within the UE Context. In case of E-DCH, the generation of E-HICH 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 DRNS shall assign to each RL the same value for the *RL Set ID* IE which uniquely identifies these RLs as members of the same RL Set within the UE Context. In case of E-DCH, the generation of E-HICH related 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 ref. [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 DRNS would contain the E-DCH serving RL, the DRNS 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 SRNC 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 the *HS-PDSCH RL ID* IE indicates the new Serving HS-DSCH Radio Link:]

- [FDD In the new configuration the DRNS shall allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.]
- [FDD The DRNS 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 If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.]
- [FDD The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD The DRNS 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 The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK ADDITION RESPONSE 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- [FDD If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]
  - [FDD The DRNS 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 DRNS 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 ADDITION RESPONSE message.]
- [FDD If at least one of *HS-PDSCH Second Code Support* IE is set to "True", then the DRNC shall include *HS-PDSCH Second Code Index* IE in the RADIO LINK ADDITION RESPONSE message.]

## [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 DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.]
- [FDD The DRNC 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 The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.]

- [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 DRNS 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 DRNS 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 DRNS 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 DRNC 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 DRNS allows the SRNC to start transmission of MACd PDUs before the DRNS has allocated capacity on user plane as described in [32]. 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 DRNC 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 recieved 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 DRNS 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 HARQ Preamble Mode IE in the HS-DSCH Information IE, then the DRNS 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 DRNC 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 DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response 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 [32] and MAC-hs [41].]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then ]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* 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 DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS 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 DRNS

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 [41] for HS-DSCH Transport Block Size signalling.]

- [FDD The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the *HS-DSCH FDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [FDD If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the DRNS 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 SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The DRNS 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 DRNS 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 requested Serving HS-DSCH Radio Link Change was successful or unsucessful, the DRNS shall indicate this in the *HS-DSCH Serving Cell Change Information Response* 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 DRNS shall setup the E-DCH resources as configured in the UE context.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE and *Binding ID* IE in the *RL specific E-DCH 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 DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]
- [FDD The DRNC 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 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 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 DRNC 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 DRNC establishes a transport bearer for the concerned E-DCH MAC-d flow, the DRNC 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 DRNC does not establish a transport bearer for the concerned E-DCH MAC-d flow, the DRNC 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 The DRNC may include the E-AGCH and E-RGCH and E-HICH FDD Scrambling Code IE and shall include the E-RGCH and E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the DRNC may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK ADDITION 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 ADDITION REQUEST message includes the *E-RGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS 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 DRNS 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 DRNS has no valid data for the *E-RGCH and E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK ADDITION RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH and E-HICH Channelisation Code* IE contains invalid data.]

#### [FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the Serving E-DCH RL IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the new Serving E-DCH RL is in this DRNS:]
  - [FDD The DRNS shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both 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 for the indicated RL in the RADIO LINK ADDITION RESPONSE message.]
  - [FDD The DRNS 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 DRNS 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 If a serving cell change is performed the RADIO LINK ADDITION RESPONSE message may contain invalid data (see 9.2.2.4C).]
  - [FDD The DRNS 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 DRNS 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 Link in the DRNS 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 DRNS 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 SRNC, or earlier. In this case, in the new configuration the DRNS shall, if applicable, de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link. The DRNS 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 DRNS shall activate immediately the resources that are allocated for the new serving E-DCH Radio Link, and shall keep active the resources that are allocated for the previous 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 DRNS 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 DRNS 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-TFCI Boost Information* IE, the DRNS shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in [10].]

[FDD - If the *E-DPCH Information* IE includes the *E-TFCS Information* IE, the DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS 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 Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS 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 DRNS 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 DRNS shall use the E-DPDCH power extrapolation formula defined in [10].]

#### [FDD - E-DCH Setup:]

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

- [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 DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [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 DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK ADDITION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS 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 DRNS 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 DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 DRNS 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 *Bundling Mode Indicator* IE for a 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]

# [TDD - HS-DSCH Setup:]

[TDD - If the HS-DSCH Information IE is present in the RADIO LINK ADDITION REQUEST message, then:]

- [TDD The DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]
- [TDD The DRNC 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 DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels [32] and MAC-hs [41]. ]
- [TDD The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [TDD The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The DRNC 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 DRNC may use the transport layer address and the binding identifier received from the SRNC 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC 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 DRNS 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 DRNS 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 DRNC 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 DRNC 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 DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32]. 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 DRNC 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 recieved 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.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall 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.]

# [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 DRNC shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH TDD Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [TDD The DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall 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:]

[3.84Mcps TDD, 1.28Mcps TDD and 7.68Mcps 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 DRNS 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 DRNS 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 DRNC may use the transport layer address and the binding identifier received from the SRNC 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 DRNS 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 MACd Flows Information TDD* IE is set to "Non-scheduled" for an E-DCH MAC-d flow the DRNS shall assume nonscheduled grants are configured for that E-DCH MAC-d flow.]
- [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 DRNS 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 DRNS shall use this information to optimise MAC-e scheduling decisions for the related queue.]
- [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 DRNS 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 DRNS 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.]
- [3.84Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information* 7.68Mcps IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Processing Overload Level* IE in the *E-DCH TDD Information LCR* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [TDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B.]
- [TDD If the RADIO LINK ADDITION REQUEST message includes the [3.84Mcps TDD *E-DCH TDD Information* IE][1.28Mcps TDD *E-DCH TDD Information LCR* IE] in the *E-DCH MAC-d Flows Information TDD* IE, then the DRNS 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 DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]
- [3.84Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]
- [3.84Mcps TDD The DRNS 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.]
- [1.28Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier, the E-AGCH(s) and E-HICH(s) assigned in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK ADDITION RESPONSE message.]
- [7.684Mcps TDD The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

# [3.84Mcps TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[3.84Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [3.84Mcps TDD - The Node B shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

# [1.28Mcps TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [1.28Mcps TDD - The Node B shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

# [7.68Mcps TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE, this indicates the new Serving E-DCH Radio Link:]

- [7.68Mcps TDD - The Node B shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* 7.68Mcps TDD IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK ADDITION RESPONSE message.]

### **Response message:**

If all requested RLs are successfully added, the DRNC shall respond with a RADIO LINK ADDITION RESPONSE message.

After sending the RADIO LINK ADDITION RESPONSE message the DRNS 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 DRNS shall:

- [FDD -start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4].]
- [TDD start transmission on the new RL immediately as specified in ref. [4].]

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

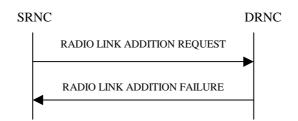
- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerning RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD start transmission on the DL DPDCH(s) of the new RL as specified in ref. [4], however never before the CFN indicated in the *Activation CFN* IE.]

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- [TDD - start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in ref. [4].]

[1.28 Mcps TDD – if the DRNS assigns one or more PLCCH sequence numbers to the radio link, then the PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK ADDITION RESPONSE message.]

# 8.3.2.3 Unsuccessful Operation



# Figure 8: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall respond with a RADIO LINK ADDITION FAILURE message. DRNC shall include in the RADIO LINK ADDITION FAILURE message a general *Cause* IE or a *Cause* IE for each failed radio link. The *Cause* IE indicates the reason for failure.

[FDD - If some RL(s) were established successfully, the DRNC 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 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 DRNS 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 DRNS shall indicate this in the *E-DCH Serving Cell Change Information Response* IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are:

#### **Radio Network Layer Causes:**

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Combining Resources not Available;
- Combining not Supported
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported;]
- Power Level not Supported;
- CM not Supported;
- Reconfiguration CFN not Elapsed;
- Number of DL Codes not Supported;
- Number of UL codes not Supported;
- [FDD DPC mode change not Supported;]
- Cell reserved for operator use;
- Delayed Activation not supported;

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- [FDD F-DPCH not supported;]
- E-DCH not supported;
- [FDD MIMO not supported;]
- [FDD E-DCH TTI2ms 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 F-DPCH Slot Format operation not supported.]

# Transport Layer Causes:

- Transport Resource Unavailable.

# **Miscellaneous Causes:**

- Control Processing Overload;
- HW Failure;
- Not enough User Plane Processing Resources.

# 8.3.2.4 Abnormal Conditions

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available in the DRNC for the considered UE Context, the DRNC shall reject the procedure for this particular Radio Link and send the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Transmission Gap Pattern Sequence Status* IEs in the *Active Pattern Sequence Information* IE and it does not address exactly all ongoing compressed mode patterns the DRNS shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the *Cause* IE value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message is used to establish a new RL without compressed mode when compressed mode is active for the existing RL(s) (as specified in subclause 8.3.2.2), and if at least one of the new RLs is to be established in a cell that has the same UARFCN (both UL and DL) as at least one cell with an already existing RL, the DRNS shall reject the Radio Link Addition procedure 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 UE 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 DRNC shall reject the Radio Link Addition procedure 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 UE Context set to "Common" in the existing RL(s), the DRNC shall reject the Radio Link Addition procedure and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

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 included in the *RL Information* IE for a specific RL and [FDD - and the transport bearer for the DCH is already established] the *Diversity Control Field* IE is set to "Must", the DRNC 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 nor *RL Specific E-DCH Information* IE in the *RL Information* IE for a specific RL and the *Diversity Control Field* IE is set to "May", the DRNC 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 DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message includes the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport bearer intended to be established, the DRNC shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

[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 UE Context is not configured for HS-DSCH, then the DRNS 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 the *HS-DSCH Serving Cell Change Information* IE, then the DRNS 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 UE Context is not configured for E-DCH, then the DRNS 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 DRNS 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 UE Context is not configured for E-DCH, then the DRNC 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 DRNC 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 DRNC 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.]

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 DRNS but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the DRNC 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 DRNC 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 DRNC 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*] in the *HS-DSCH Serving Cell Change Information*] has the value "Flexible MAC-d PDU Size", the DRNC 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 DRNC 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 DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

# 8.3.3 Radio Link Deletion

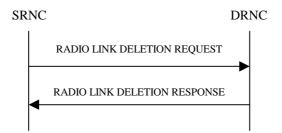
# 8.3.3.1 General

The Radio Link Deletion procedure is used to release the resources in a DRNS for one or more established radio links towards a UE.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Deletion procedure may be initiated by the SRNC at any time after establishing a Radio Link.

# 8.3.3.2 Successful Operation



### Figure 9: Radio Link Deletion procedure, Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the SRNC to the DRNC.

Upon receipt of this message, the DRNS shall delete the radio link(s) identified by the *RL ID* IE(s) in the message, shall release all associated resources and shall respond to the SRNC with a RADIO LINK DELETION RESPONSE message.

If the radio link(s) to be deleted represent the last radio link(s) for the UE in the DRNS and if the UE is not using any common resources in the DRNS, then the DRNC shall release the UE Context.

[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. 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.]

# 8.3.3.3 Unsuccessful Operation

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# 8.3.3.4 Abnormal Conditions

If the RL indicated by the *RL ID* IE does not exist, the DRNC shall respond with the RADIO LINK DELETION RESPONSE message.

# 8.3.4 Synchronised Radio Link Reconfiguration Preparation

# 8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.4.2 Successful Operation



# Figure 10: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the DRNC.

Upon receipt, the DRNS 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS 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* IEs, the DRNS shall treat them each as follows:

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs To Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS 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 to be modified, the DRNS 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 to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS 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 DRNS once the new configuration has been activated.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Traffic Class* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The *Traffic Class* IE

may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this DCH indicates the value "RRC".

- [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 DRNS 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 DRNS 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 contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS 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 DRNS 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 contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs To Add* IEs, the DRNS shall treat them each as follows:

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, the DRNS shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS 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 DRNS 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 each DCH which do not belong to a set of co-ordinated DCHs and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4].]
- The DRNS 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 DRNS 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 DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- The DRNS 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 DRNS 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 DRNS 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.
- [3.84Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [1.28Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [7.68Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* 7.68Mcps IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- If the *DCHs To Add* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCHs To Add*

IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS 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 *DCH To Delete*, the DRNS 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 DRNS 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, the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the DRNS 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 DRNS shall apply the new Min UL Channelisation Code Length in the new configuration. The DRNS 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 *TFCS* IE, the DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS 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 DRNS shall apply the new Uplink DPCCH *Slot Format* to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *UL SIR Target* IE, the DRNS 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 DRNS shall apply the value in the uplink of the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Diversity Mode* IE, the DRNS 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 a *DL DPCH Information* IE and the concerned UE Context is configured to use F-DPCH in the downlink in the old configuration, the DRNS shall configure the concerned UE Context to use DPCH in the downlink in the new configuration. In this case, if at least one Transmission Gap Pattern Sequence is configured with an SF/2 downlink compressed mode method in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, the DRNS 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 DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. [10]. Furthermore, the DRNC shall include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION READY.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL DPCH Information* IE, the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes the *Number of DL Channelisation Codes* IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included in the RADIO LINK RECONFIGURATION READY message within the *DL Code Information* IE as a *FDD DL Channelisation Code Number* IE when sent to the SRNC. If some Transmission Gap Pattern sequences using "SF/2" method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]
- [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 *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE set to "Used", the DRNS 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 DRNS 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, then:]

- [FDD The DRNS shall configure the concerned UE Context to use F-DPCH in the downlink in the new configuration.]
- [FDD If the *F-DPCH Information* IE includes the *F-DPCH Slot Format Support Request* IE, then the DRNS shall configure the concerned UE Context for F-DPCH Slot Format operation according to [8] and include the *F-DPCH Slot Format* IE in the RADIO LINK RECONFIGURATION READY message. If the *F-DPCH Information* IE includes the *F-DPCH Slot Format* IE, the DRNC may use the *F-DPCH Slot Format* IE to determine the F-DPCH slot format.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS 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 DRNS until the next Compressed Mode Configuration is configured in the DRNS or until the last Radio Link is deleted.] [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern* Sequence Information IE and the Downlink Compressed Mode Method IE in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to "SF/2" and the UE Context is configured to use DPCH in the downlink in the new configuration, the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DPCH Information* IE, the DRNS 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 DRNS 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 DRNS 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 DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS 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 Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI validity indicator* IE is absent DRNS 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 DRNS 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 DRNS 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 DRNS shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall use the value when the new configuration is being used.]
- [FDD If the *E-DPCH Information* IE includes the *E-DCH HARQ Info* IE, the DRNS 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 DRNS shall use the value when the new configuration is being used.]

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

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity 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 DRNS 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 DRNS 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 DRNS shall use this information to modify the indicated DTX Information parameter in the new configuration.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS 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 DRNS 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 DRNS 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 DRNC 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 DRNS shall deactive the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs, then the DRNS shall treat them each as follows:]

- [TDD If any of the *UL CCTrCH To Modify* IEs or *DL CCTrCH To Modify* IEs includes any of the *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [TDD If any of the following listed DPCH information IEs are modified in the new prepared configuration, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the IEs indicating the new values: *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE, [3.84Mcps TDD *UL Timeslot Information* IE,] [1.28Mcps TDD *UL Timeslot Information LCR* IE,] [7.68 Mcps TDD *UL Timeslot Information LCR* IE,] [1.28Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [3.84Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [3.84Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [1.28Mcps TDD *DL Timeslot Information 7.68 Mcps* IE,] [3.84Mcps TDD *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD *Midamble Shift LCR* IE,] [7.68 Mcps IE,] *TFCI Presence* IE, [3.84Mcps TDD *TDD Channelisation Code 1CR* IE,] [1.28Mcps IE,] [1.28Mcps ID] *Atom Code 1CR* IE,] [1.28Mcps ID] *Atom Code 1*
- [1.28Mcps TDD If the *UL CCTrCH To Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] in the new configuration.]
- [TDD If any of the *DL CCTrCH To Modify* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall apply these as the new values, otherwise the previous values specified for this CCTrCH are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *TDD TPC Uplink Step Size* IE, the DRNS 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 Downlink Step Size* IE, the DRNS shall apply this value to the downlink TPC step size in the new configuration.]

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- [1.28 Mcps TDD – if the DRNS modifies, deletes or grants a new PLCCH assignment(s) to the UL CCTrCH, then the resulting PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK RECONFIGURATION READY message.]

# [TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Add* IEs or *DL CCTrCH To Add* IEs, the DRNS shall include this CCTrCH in the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Add* IEs, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the DPCH information in [3.84Mcps TDD - *UL DPCH to be Added* IE/*DL DPCH to be Added* IEs] [1.28Mcps TDD - *UL DPCH to be Added LCR* IE/*DL DPCH to be Added* 7.68 Mcps TDD - *UL DPCH to be Added 7.68 Mcps* IE/*DL DPCH to be Added 7.68 Mcps* IEs]. [3.84Mcps TDD - If no UL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid Rx Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation* IE (or the *Rx Timing Deviation 3.84 Mcps Extended* IE if the cell containing the radio link is configured for extended timing advance) in the RADIO LINK RECONFIGURATION READY message]. [7.68 Mcps TDD - If no UL DPCH is active before a reconfiguration measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation* IE (or the *Rx Timing Deviation 3.84 Mcps Extended* IE if the cell containing the radio link is configured for extended timing advance) in the RADIO LINK RECONFIGURATION READY message]. [7.68 Mcps TDD - If no UL DPCH is active before a reconfiguration which adds an UL DPCH, and if a valid Rx Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation 7.68 Mcps* IE in the RADIO LINK RECONFIGURATION READY message].

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *TDD TPC Downlink Step Size* IE within a *DL CCTrCH To Add* IE, the DRNS shall set the TPC step size of that CCTrCH to that value, otherwise the DRNS shall use the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - The DRNS 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 [12] and [22] in the new configuration.]

[TDD - If any of the *DL CCTrCH To Add* IEs includes any *TPC CCTrCH ID* IEs, the DRNS shall configure the identified UL CCTrCHs with TPC according to the parameters given in the message.]

[1.28Mcps TDD - If the *UL CCTrCH To Add* IE includes *TDD TPC Uplink Step Size* IE, the DRNS shall apply the uplink TPC step size in the new configuration.]

[1.28 Mcps TDD – if the DRNS grants a PLCCH assignment(s) to the UL CCTrCH, then the resulting PLCCH assignment(s) shall be sent to the SRNC in the RADIO LINK RECONFIGURATION READY message.]

### [TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH To Delete* IEs or *DL CCTrCH To Delete* IEs, the DRNS shall remove this CCTrCH in the new configuration, and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message corresponding *UL DPCH to be Deleted* IEs and *DL DPCH to be Deleted* IEs.]

### **DL Power Control:**

- [FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and power balancing is active, DRNS 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 8.3.15, 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 DRNS, the DRNC 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* IEs, then the DRNS 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 - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - The DRNC 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 added DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

[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 DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH To Modify* IE, then the DRNS shall treat them each as follows:]

- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified DSCH.]
- [TDD If the *DSCHs To Modify* IE includes the *CCTrCH ID* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
- [TDD If the *DSCHs To Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the *DSCHs To Modify* IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]
- [TDD If the *DSCHs To Modify* IE includes the *TNL QoS* IE and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[3.84 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[7.68 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info* 7.68 *Mcps TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info* 7.68 *Mcps TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[TDD - The DRNC shall include the *DSCH Initial Window Size* IE in the RADIO LINK RECONFIGURATION READY message for each DSCH, if the DRNS allows the SRNC to start transmission of MAC-c/sh SDUs before the DRNS has allocated capacity on user plane as described in [32].]

#### [TDD USCH Addition/Modification/Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify, USCH To Add or USCH To Delete IEs, then the DRNS 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 any USCH To Add IE, then, the DRNS shall use the Allocation/Retention Priority IE, Scheduling Priority Indicator IE and TrCH Source Statistics Descriptor IE to define a set of USCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH To Add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Add IE, if the TNL QoS IE is included and if ALCAP is not used, the DRNS may use the TNL QoS IE to determine the transport bearer characteristics to apply for the related USCHs.]

[TDD - The DRNC 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 added USCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH To Modify IE, then the DRNS shall treat them each as follows:]

- [TDD If the USCH To Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.]
- [TDD If the USCH To Modify IE includes any of the CCTrCH ID IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD If the USCHs To Modify IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]
- [3.84Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [1.28Mcps TDD The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [7.68Mcps TDD The DRNC shall include the *Secondary CCPCH Info* 7.68Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info* 7.68Mcps TDD IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [TDD if the *TNL QoS* IE is included and if ALCAP is not used, the DRNS may use the *TNL QoS* IE to determine the transport bearer characteristics to apply for the related USCHs.]
- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for any new transport bearer to be established for each modified USCH.]

#### **RL Information:**

[FDD - If the *RL Information* IE includes the *DL DPCH Timing Adjustment* IE, the DRNS shall adjust the timing of the radio link accordingly in the new configuration. If the UE Context is configured to use F-DPCH in the downlink in the new configuration, the DRNC may include the *DL Code Information* 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 DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC 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.]
- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* 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 DRNS 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 DRNS 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 DRNS 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 DRNC 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 DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32] 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 DRNC 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 recieved in RADIO LINK RECONFIGURATION PREPARE 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 PREPARE message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the DRNS 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 The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall 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 DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* 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 DRNS 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 DRNC 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 DRNC 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* IE, then the DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels [32] and MAC-hs [41].
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* 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 DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS shall not use 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 DRNS 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 [41] for HS-DSCH Transport Block Size signalling.]

#### Intra-DRNS 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:

- The DRNS 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 DRNC 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.]
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.

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- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION READY message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall 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 DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information IE] [1.28 Mcps TDD HS-PDSCH Timeslot Specific Information LCR IE] [7.68 Mcps TDD HS-PDSCH Timeslot Specific Information 7.68 Mcps IE] in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the [FDD HS-DSCH FDD Information Response IE] [TDD 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.

# **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify* IE, then:

- The DRNC shall include the HS-DSCH Initial Capacity Allocation IE for each HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the DRNS allows the SRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the DRNS has allocated capacity on user plane as described in [32]. 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 DRNC 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 recieved 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 *Traffic Class* IE in the *HS-DSCH Information To Modify* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific HS-DSCH MAC-d flow indicates the value "RRC".
- 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify* IE, the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 PREPARE message includes the *TDD ACK NACK Power Offset* IE in the *HS-DSCH Information To Modify* IE, the DRNS shall use the indicated power offset in the new configuration.]
- [FDD If the *HS-DSCH Information To Modify* IE includes the *HS-SCCH Code Change Grant* IE, then the DRNS may modify the HS-SCCH codes corresponding to the HS-DSCH. The DRNC 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.]
- [FDD If the HS-DSCH Information To Modify IE includes the HS-PDSCH Code Change Grant IE, then the
  DRNS may modify the HS-PDSCH codes corresponding to the HS-DSCH. The DRNC 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
  DRNS is not in Continuous Packet Connectivity HS-SCCH less mode, the SRNC shall not include the HSPDSCH Code Change Grant IE in the HS-DSCH Information To Modify IE.]
- [TDD If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the DRNS may modify the HS-SCCH parameters corresponding to the HS-DSCH. The DRNC 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 IE] [1.28Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response ICR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps 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 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 DRNC 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 DRNC shall not include the HARQ Preamble Mode Activation Indicator 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 DRNS shall use, in the new configuration, the indicated format in user plane frame structure for HS-DSCH channels [32] and MAC-hs [41].
- [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 DRNS shall use this information in the new configuration.]

- [FDD If the MIMO Mode Indicator IE is included in the HS-DSCH Information To Modify IE, then]
  - [FDD The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [FDD The DRNC 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 Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS 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 DRNS 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 [41] for HS-DSCH Transport Block Size signalling.]

#### 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 DRNS 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 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 UE Context, then the DRNC shall delete the HS-DSCH configuration from the UE 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 DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- The DRNC shall include the *HS-DSH Initial Capacity Allocation* IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32]. If the UE context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then DRNC 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 recieved 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 DRNS 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 DRNS 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 DRNC 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 DRNC 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.]

### [FDD - E-DCH Setup:]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK RECONFIGURATION PREPARE message then:]

- [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 DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [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 DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS 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 DRNS 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 DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 DRNS 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 *Bundling Mode Indicator* IE for a 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]

- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH ReferencePower Offset* IE, then the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]

#### [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 DRNC shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The DRNC 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 DRNC 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 DRNC shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the *E*-DCH *RL Indication* IE set to "Non E-DCH", in the *RL Information* IE.]
- [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 DRNS would contain the E-DCH serving RL, the DRNS 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 SRNC 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 ID* IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD If the old Serving E-DCH RL is within this DRNS, the DRNS 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 within this DRNS:]
  - [FDD the DRNS shall 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 *RL Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD The DRNS 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 DRNS 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 a serving cell change is performed the RADIO LINK RECONFIGURATION READY message may contain invalid data (see 9.2.2.4C).]
- [FDD The DRNS 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 DRNS 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 DRNS.]
- [FDD If the DRNS has no valid data for the *E-RGCH and E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION READY message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH and E-HICH Channelisation Code* IE contains invalid data.]

#### [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 DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [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 DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD -If the *Traffic Class* IE is included for an E-DCH MAC-d flow then the DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific E-DCH MAC-d flow indicates the value "RRC".]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [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 in the *E-DCH FDD Information To Modify* IE, then the DRNS 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 DRNS shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,i,uq}$ ) 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 DRNS shall use this information 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 Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS 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 DRNS shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH ReferencePower Offset* IE, then the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]
- [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 DRNS 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 DRNC 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:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E-DCH MAC-d Flows To Add* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 MAC-d Flows To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]

### [FDD - E-DCH MAC-d Flow Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH *MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration 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 UE Context, then the DRNC shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

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

[1.28Mcps TDD -If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC 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 - Uplink Timing Advance Control LCR:]

[1.28Mcps TDD - The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK RECONFIGURATION READY message, if the Uplink Timing Advance Control parameters have been changed.]

#### [TDD - DSCH RNTI Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new RL identifier for PDSCH and PUSCH.]

- [TDD If the indicated PDSCH RL ID is in the DRNS and there was no DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a DSCH-RNTI to the UE Context and include the *DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall allocate a new DSCH-RNTI to the UE Context, release the old DSCH-RNTI and include the *DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the indicated PDSCH RL ID is not in the DRNS and there was a DSCH-RNTI allocated to the UE Context, the DRNC shall release this DSCH-RNTI.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a *DSCHs To Delete* IE and/or a *USCHs To Delete* IE which results in the deletion of all DSCH and USCH resources for the UE Context, then the DRNC shall release the DSCH-RNTI allocated to the UE Context, if there was one.]

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

[FDD – If Primary CPICH usage for channel estimation information has been reconfigured, the DRNC shall include the *Primary CPICH Usage For Channel Estimation* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If Secondary CPICH information for channel estimation has been reconfigured, the DRNC shall include the *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes *Phase Reference Update Indicator* IE, DRNC shall modify the channel estimation information according to [10] subclause 4.3.2.1 and set the value(s) in *Primary CPICH Usage For Channel Estimation* IE and/or *Secondary CPICH Information Change* IE in the RADIO LINK RECONFIGURATION READY message accordingly.]

[FDD – If the RADIO LINK RECONFIGURATION READY message includes the *Primary CPICH Usage For Channel Estimation* IE and/or the *Secondary CPICH Information Change* IE, the DRNC shall avoid the new configuration in which neither the Primary CPICH nor the Secondary CPICH is used as a Phase Reference for this Radio Link.]

#### [FDD - Fast Reconfiguration:]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Fast Reconfiguration Mode* IE, the DRNS 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.]

#### [TDD - Intra- DRNS 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 DRNS 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.]
- [3.84Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD The Node B shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK RECONFIGURATION READY message.]
- [7.68Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* 7.68Mcps IE in the *E-DCH TDD Information Response* 7.68Mcps 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 DRNS to determine the transport bearer characteristics to apply in the uplink 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 DRNS 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 DRNS shall apply the parameters to the new configuration]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an *E*- *TFCS* Information IE, the DRNS 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 and *E-DCH TDD Information* IE.]

# [1.28Mcps TDD - E-DCH Setup:]

[1.28cps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH informationelements: *E-DCH Serving RL* IE, *E-PUCH Information LCR* IE, *E-TFCS Information TDD* IE, *E-DCH MAC-d Flows to Add* IE and *E-DCH TDD Information LCR* IE.]

# [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 and *E-DCH TDD Information 7.68Mcps* IE.]

### [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 DRNS 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 UE Context, then the DRNS shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

[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 DRNS shall use this information to optimise MAC-e scheduling decisions.]

### [3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

# [1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK RECONFIGURATION READY message.]

# [7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK RECONFIGURATION READY message.]

#### [3.84Mcps TDD - E-DCH Modification:]

[3.84Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information* 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 DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

# [1.28Mcps TDD - E-DCH Modification:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information LCR* IE, then:]

- [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 DRNS 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 Processing Overload Level* IE for an E-DCH, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS 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 DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

#### [7.68Mcps TDD - E-DCH Modification:]

[7.68Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *E-DCH TDD Information 7.68Mcps* IE, then:]

- [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 DRNS 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 Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset 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 DRNS 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 contains a *TNL QoS* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the DRNS 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 includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the DRNS shall use this information to set the retransmission timer.]
- [TDD- If the *TNL QoS* IE is included in the *E-DCH TDD Information to Modify* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the DRNS 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 DRNS shall use this information for the related resource allocation operation.]
- [TDD- If the *E-DCH TDD Information To Modify* IE contains the *E-DCH Grant Type* IE, the DRNS 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 DRNS 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 DRNS 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 DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS 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.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE, then the DRNS shall use this value to determine whether MAC-e Reset is performed in the UE for sending the HARQ Failure Indication.]

#### General

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Layer Address* IE and *Binding ID* IE in the [TDD - *DSCHs To Modify* IE, *DSCHs To Add* IE, *USCHs To Modify* IE, *USCHs To Add* IE], *HS-DSCH Information* IE, *HS-DSCH Information To Modify* 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,] [TDD - *E-DCH TDD Information to Modify* IE,] or in the *RL Specific DCH Information* IEs, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not*  3GPP TS 25.423 version 7.9.0 Release 7

*Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] being added, or any Transport Channel, HS-DSCH MAC-d flow or E-DCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC 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 is not included], HS-DSCH MAC-d flow being added or E-DCH 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], HS-DSCH MAC-d flow or E-DCH MAC-d flow [FDD - for which the *Transport Bearer Not Requested Indicator* IE was not included], HS-DSCH MAC-d flow or E-DCH 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 Iur 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 only one of the DCHs 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 DRNC 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 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 DRNC establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC 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 DRNC does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC 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 DRNS, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included for only one of the combined Radio Links [FDD - if the *Transport Bearer Not Requested Indicator* IE is not included for this DCH of the Radio Link].

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the DRNS, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

Any allowed rate for the uplink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

Any allowed rate for the downlink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link when these values are changed.

[FDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL -except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when 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.]

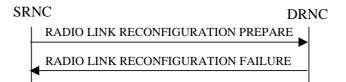
[3.84 Mcps TDD and 7.68 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION READY message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the new value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/*CCTrCH Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/*CCTrCH Minimum DL TX Power* IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION READY message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the new value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE or lower than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower IE or l

[TDD - If the [3.84Mcps TDD and 7.68 Mcps TDD - *DL Time Slot ISCP Info* IE][1.28Mcps TDD - *DL Time Slot ISCP Info LCR* IE] is present, the DRNS should use the indicated values when deciding the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP Delta* IE is included, the DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], 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 DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. If the DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE. The DRNS shall use the indicated values when deciding the Initial DL TX Power.]

### 8.3.4.3 Unsuccessful Operation



#### Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the DRNS cannot reserve the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added, it shall reject 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 DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure for each failed radio link in a *Cause* IE.

Typical cause values are:

#### **Radio Network Layer Causes:**

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Number of DL Codes not Supported;
- Number of UL Codes not Supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported;]

- [FDD UL Spreading Factor not Supported;]
- [FDD DL Spreading Factor not Supported;]
- CM not Supported;
- RL Timing Adjustment not Supported;
- E-DCH not supported;
- [FDD F-DPCH not supported;]
- [FDD Continuous Packet Connectivity DTX-DRX operation not Supported;]
- [FDD Continuous Packet Connectivity HS-SCCH less operation not Supported;]
- [FDD MIMO not supported;]
- [FDD E-DCH TTI2ms 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 SixteenQAM UL not Supported;]
- HS-DSCH MAC-d PDU Size Format not supported;
- [FDD F-DPCH Slot Format operation not supported.]

#### **Miscellaneous Causes:**

- Control Processing Overload;
- Not enough User Plane Processing Resources.

### 8.3.4.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

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 DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC 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 DRNC 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 DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC 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 UE Context set to "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message includes more than one *DL Reference Power* IE, the DRNS shall reject the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC 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 DRNC shall reject the Synchronised Radio Link Reconfiguration Preparation procedure and the DRNC shall respond with a 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 DRNC 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 DRNS, the DRNC 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 DRNC 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 DRNC 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 UE Context, the DRNC 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE 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 MACd PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *F-DPCH Information* IE and the *DL DPCH Information* IE, then the DRNS 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 UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the concerned UE Context is configured to use DPCH in the downlink in the old configuration and if the RADIO LINK RECONFIGURATION PREPARE message includes the *DL DPCH Power Information* IE, then the DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE 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 DRNS 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 DRNS 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 UE Context is not configured for E-DCH, then the DRNC 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 DRNC 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 DRNC 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 DRNC 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 DRNC 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 UE Context is not configured for E-DCH, the DRNC 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 DRNC 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 UE Context, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[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 DRNC 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 DRNC 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 DRNC had ignored the configuration of Transport Format Set for uplink, the DRNC 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 DRNC had ignored the configuration of Transport Format Set for downlink, the DRNC 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 or an E-DCH MAC-d flow 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 or does not contain the corresponding *E-DCH MAC-d Flow ID* IE in *E-DCH MAC-d Flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply UL DPCCH Slot Format 4 but is not configured to use F-DPCH, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply the "Closed loop mode 1" and if the concerned UE Context is not configured to apply UL DPCCH Slot Format 2 or 3, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply MIMO or allowed to apply 64QAM but is not configured to use flexible MAC-d PDU Size, then the DRNC 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 DRNC 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 an E-DCH MAC-d flow in the *RL Specific E-DCH Information* IE but does not include the *E-DCH MAC-d flow ID* IE for the E-DCH MAC-d flow in the *E-DCH MAC-d flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

# 8.3.5 Synchronised Radio Link Reconfiguration Commit

### 8.3.5.1 General

This procedure is used to order the DRNS to switch to the new configuration for the Radio Link(s) within the DRNS, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

### 8.3.5.2 Successful Operation



### Figure 12: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation

The DRNS shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure at the "configuration switching point" occurring:

- [TDD at the next coming CFN with a value equal to the value requested by the SRNC in the CFN IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC.]
- [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 SRNC in the *CFN* IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC.]
- [FDD if the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message as soon as the DRNS detects that the UE uses the new configuration in the uplink (e.g. the NodeB indicates 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 DRNS 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 DRNS.]

[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 DRNS 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) indicated CFN.

The detailed frame protocol handling during transport bearer replacement is described in [4], subclause 5.10.1, and in [32], subclauses 5.3.1 and 5.3.2.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the *Active Pattern Sequence Information* IE, the DRNS 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 UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration]

### 8.3.5.3 Abnormal Conditions

If a new transport bearer is required for the new configuration and it is not available at the requested configuration switching point (defined in sub-clause 8.3.3.2), the DRNS shall initiate the Radio Link Failure procedure.

[FDD – If the *Fast Reconfiguration* IE is included in the RADIO LINK RECONFIGURATION COMMIT message and the DRNC did not include the *Fast ReconfigurationPermission* IE in the RADIO LINK RECONFIGURATION READY message, the DRNC shall initiate the Radio Link Failure procedure.]

## 8.3.6 Synchronised Radio Link Reconfiguration Cancellation

### 8.3.6.1 General

This procedure is used to order the DRNS to release the new configuration for the Radio Link(s) within the DRNS, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

### 8.3.6.2 Successful Operation



### Figure 13: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

Upon receipt of the RADIO LINK RECONFIGURATION CANCEL message from the SRNC, the DRNS shall release the new configuration ([FDD - including the new Transmission Gap Pattern Sequence parameters (if existing)]) previously prepared by the Synchronised RL 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.

### 8.3.6.3 Abnormal Conditions

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# 8.3.7 Unsynchronised Radio Link Reconfiguration

### 8.3.7.1 General

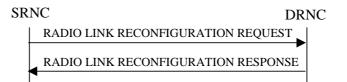
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

### 8.3.7.2 Successful Operation



### Figure 14: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

Upon receipt, the DRNS 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS shall prioritise resource allocation for the RL to be modified according to Annex A.

### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Modify* IEs, then the DRNS shall treat them as follows:

- If the *DCHs To Modify* IE includes multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs To Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS 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 to be modified, the DRNS 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 to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Frame Handling Priority* IE, the DRNS 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 DRNS once the new configuration has been activated.
- If the *DCH Specific Info* IE includes the *Traffic Class* IE, the DRNC may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this DCH indicates the value "RRC".
- [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 DRNS 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 DRNS 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 *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Add* IEs, then the DRNS shall treat them each as follows:

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs To Add* IE includes multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the *DCHs To Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if all of them can be in the new configuration.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS 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 DRNS 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 each DCH which does not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use 0 for the QE, ref. [4].]
- The DRNS 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 DRNS once the new configuration has been activated.
- The *Traffic Class* IE may be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS 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 DRNS 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 DRNS 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.
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
  - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCHs To Delete* IEs, the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE for the DL, the DRNS 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 for the DL, the DRNS shall apply the new TFCI Signalling Mode in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to "Used", the DRNS 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 and the IE is set to "Not Used", the DRNS 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 DRNS 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 DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE, and if the Downlink Compressed Mode Method in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to "SF/2", the DRNC shall include the DL Code Information IE in the RADIO LINK RECONFIGURATION RESPONSE message, without changing any of the DL Channelisation Codes or DL Scrambling Codes, indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DPCH Information* IE which contains the *E-TFCS Information* IE, the DRNS shall use the *E-TFCS Information* IE for the E-DCH when reserving resources for the uplink of the new configuration. The DRNS 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 Validity Indicator* IE the DRNS shall ignore the value in *E-DCH Minimum Set E-TFCI* IE. If the *E-DCH Minimum Set E-TFCI Validity indicator* IE is absent DRNS 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 DRNS 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 DRNS 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 DRNS shall use the information according to [10]. If the *E-TFCI Boost Information* IE is not present, the DRNS shall use the value "127" in the algorithm defined in [10] if the *E-DCH FDD Information* IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an *E-DPCH Information* IE which contains the *E-DPCCH Power Offset* IE, the DRNS 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 DRNS 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 DRNS 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 DRNS shall use the value when the new configuration is being used.]

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

- [FDD The DRNS shall configure the concerned UE Context for Continuous Packet Connectivity DTX operation according to [10].]
- [FDD If *DRX Information* IE is included in the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNS shall configure the concerned UE Context for Continuous Packet Connectivity 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 DRNS 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 DRNS 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 DRNS shall use this information to modify the indicated DTX Information parameter in the new configuration.]
- [FDD If the *DRX Information To Modify* IE is included in the *Continuous Packet Connectivity DTX-DRX Information To Modify* IE, then the DRNS 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 DRNS shall configure the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE for Continuous Packet Connectiviy HS-SCCH less operation according to [10].]
- [FDD The DRNS 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 DRNC 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 DRNS shall deactive the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]

### [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, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Modify* IEs or *DL CCTrCH Information To Modify* IEs which contain a *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value(s) to the referenced CCTrCH. Otherwise the DRNS shall continue to apply the previous value(s) specified for this CCTrCH.]

[1.28Mcps TDD - If the *UL CCTrCH To Modify* IE includes *UL SIR Target* IE, the DRNS shall apply this value as the new configuration and use it for the UL inner loop power control according [12] and [22].]

### [TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information To Delete* IEs or *DL CCTrCH Information To Delete* IEs, the DRNS shall not include the referenced CCTrCH in the new configuration.]

#### **DL Power Control:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE and the power balancing is active, the DRNS 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 Information* 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 DRNS, the DRNC 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.]

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

[1.28Mcps TDD - If the *Uplink Synchronisation Parameters LCR* IE is present, the DRNC 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 - Uplink Timing Advance Control LCR:]

[1.28Mcps TDD - The DRNC shall include the *Uplink Timing Advance Control LCR* IE in the RADIO LINK RECONFIGURATION RESPONSE message, if the Uplink Timing Advance Control parameters have been changed.]

#### **RL Information:**

[FDD. If the UE Context is configured for F-DPCH Slot Format operation, the DRNS shall include the *F-DPCH Slot Format* 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 DRNS shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the *HS-PDSCH RL ID* IE.
- The DRNC 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.]

- The DRNC shall allocate an HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* 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 DRNS 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 DRNS 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 DRNS 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 DRNC 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 DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32]. If RADIO LINK RECONFIGURATION REQUESTmessage includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then DRNC 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 recieved 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 DRNS 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 The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall 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 DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall 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 The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* 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 DRNS 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 DRNC 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 DRNC shall not include the *HARQ Preamble Mode Activation Indicator* IE in 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 DRNC shall not include the *HARQ Preamble Mode Activation Indicator* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- 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 DRNS shall use the indicated format in user plane frame structure for HS-DSCH channels [32] and MAC-hs [41].
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then]
  - [FDD The DRNS shall activate the MIMO mode for the HS-DSCH Radio Link.]
  - [FDD The DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* 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 DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS 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 DRNS 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 [41] for HS-DSCH Transport Block Size signalling.]

#### Intra-DRNS 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 DRNS 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.
- If fields are to be included in the User Plane by the SRNC to handle TNL Congestion Control for HSDPA in the DRNS, then the DRNC shall include the *User Plane Congestion Fields Inclusion* IE in the *HS-DSCH Information Response* IE.
- The DRNC 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.]
- The DRNC shall allocate a new HS-DSCH-RNTI to the UE Context and include the *HS-DSCH-RNTI* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- If a reset of the MAC-hs is not required the DRNS shall include the *MAC-hs Reset Indicator* IE in the RADIO LINK RECONFIGURATION RESPONSE message.
- [FDD The DRNC shall include the *Measurement Power Offset* IE in the *HS-DSCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNS shall allocate HS-SCCH codes corresponding to the HS-DSCH and the DRNC shall 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 DRNS shall allocate HS-SCCH parameters corresponding to the HS-DSCH and the DRNC shall include the [3.84Mcps TDD HS-SCCH Specific Information Response IE] [1.28Mcps TDD HS-SCCH Specific Information Response LCR IE] [7.68 Mcps TDD HS-SCCH Specific Information Response 7.68 Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD The DRNC shall include the [3.84 Mcps TDD HS-PDSCH Timeslot Specific Information IE] [1.28 Mcps TDD HS-PDSCH Timeslot Specific Information LCR IE] [7.68 Mcps TDD HS-PDSCH Timeslot Specific Information 7.68 Mcps IE] in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC shall include the *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HS-DSCH FDD* Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- The DRNC may include the *Transport Layer Address* IE and the *Binding ID* IE for HS-DSCH MAC-d flow in the [FDD HS-DSCH FDD Information Response IE] [TDD HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.

#### **HS-DSCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH Information To Modify Unsynchronised* IE, then:

- The DRNC shall include the *HS-DSCH Initial Capacity Allocation* IE for each HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the DRNS allows the SRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the DRNS has allocated capacity on user plane as described in [32]. If UE context is configured to use "Flexible MAC-d PDU Size", then DRNC 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 UE context.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Traffic Class* IE in the *HS-DSCH Information To Modify Unsynchronised* IE for a specific HS-DSCH MAC-d flow, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific HS-DSCH MAC-d flow indicates the value "RRC".
- 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE in the *HS-DSCH Information To Modify Unsynchronised* IE, the DRNS 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 Modify Unsynchronised* IE, then the DRNS 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 Modify Unsynchronised* IE, then the DRNS 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 Modify Unsynchronised* IE, the DRNS 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 Modify Unsynchronised* IE, the DRNS shall use the indicated power offset in the new configuration.]

- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information To ModifyUnsynchronised IE, then the DRNS 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 DRNC 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 DRNC shall not include the HARQ Preamble Mode Activation Indicator IE in the RS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD If the *MIMO Mode Indicator* To Modify IE is included in the *HS-DSCH Information To Modify Unsynchronised* IE, then]
  - [FDD The DRNS shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in the new configuration in accordance with the *MIMO Mode Indicator* IE.]
  - [FDD If the *MIMO Mode Indicator* IE is set to "Activate", then the DRNS shall decide the pilot configuration and the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the *MIMO Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [FDD The DRNC 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 Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the DRNS may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the DRNS 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 DRNS 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 DRNS 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 [41] 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, then the DRNS 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 UE Context, then the DRNC shall delete the HS-DSCH configuration from the UE Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-DSCH MAC-d Flows To Add* IE, then:

- The DRNS may use the *Traffic Class* IE for a specific HS-DSCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *HS-DSCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* 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 DRNS to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related MAC-d flow.
- The DRNC 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 DRNS allows the SRNC to start transmission of MAC-d PDUs before the DRNS has allocated capacity on user plane as described in [32]. If the UE context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then DRNC 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 recieved 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 DRNS 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 *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNC 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 REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows To Add* IE, then the DRNS shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

### [FDD - E-DCH Setup:]

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

- [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 FDD Information* IE, then the DRNS shall use this information to optimise MAC-e scheduling decisions.]
- [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 DRNS shall use this information for the related resource allocation operation.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Process Allocation For 2ms Scheduled Transmission Grant* IE, the DRNS 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 DRNS 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 DRNS shall assume scheduled grants being configured for that E-DCH MAC-d flow.]
- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 DRNS 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 *Bundling Mode Indicator* IE for a 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related Mac-d flow, otherwise the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH ReferencePower Offset* IE, then the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]

### [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 DRNC shall setup the E-DCH resources, as requested or as configured in the UE context, on the Radio Links indicated by the *E-DCH RL Indication* IE, set to "E-DCH", in the *RL Information* IE.]
- [FDD The DRNC 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 DRNC 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 DRNC 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 DRNS would contain the E-DCH serving RL, the DRNS 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 SRNC 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 within this DRNS, the DRNS shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.]
- [FDD If the new Serving E-DCH RL is within this DRNS:]
  - [FDD The DRNS shall 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 *RL Information Response* IE for the indicated RL in the RADIO LINK RECONFIGURATION RESPONSE message.]
  - [FDD The DRNS 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 DRNS 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 a serving cell change is performed the RADIO LINK RECONFIGURATION RESPONSE message may contain invalid data (see 9.2.2.4C).]
  - [FDD The DRNS 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 DRNS 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 DRNS.]
- [FDD If the DRNS has no valid data for the *E-RGCH and E-HICH Channelisation Code* IE in the *E-DCH FDD DL Control Channel Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message, then it shall insert the *E-RGCH and E-HICH Channelisation Code Validity Indicator* IE in the *E-DCH FDD DL Control Channel Information* IE, to indicate that the *E-RGCH and E-HICH Channelisation Code* IE contains invalid data.]

#### [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 DRNS shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]
- [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 DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [FDD If *Traffic Class* IE is included for an E-DCH MAC-d flow the DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE for this specific E-DCH MAC-d flow indicates the value "RRC".]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *Data Description Indicator* IE, the DRNC shall use the DDI values indicated in the *Data Description Indicator* IE in the new configuration.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-es Guaranteed Bit Rate* IE in the *E-DCH FDD Information To Modify* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]

- [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 in the *E-DCH FDD Information To Modify* IE, then the DRNS 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 DRNS shall use this information for calculating the unquantised gain factor for an E-TFC ( $\beta_{ed,j,uq}$ ) 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 DRNS shall use this information 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 Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the DRNS 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 DRNS 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 DRNS 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 DRNS 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 DRNS shall apply the values in the new configuration.]
  - [FDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS 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 DRNS shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the DRNS 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 DRNS shall use this information for the related resource allocation operation.]
- [FDD If the E-DCH serving RL is in this DRNS, the DRNS may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the DRNS 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 DRNS 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 DRNS 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 DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [FDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH ReferencePower* Offset IE, then the DRNS 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-AGCH Power Offset* IE in the *RL Specific E-DCH Information* IE, then the DRNS 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 DRNS 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 DRNS 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 *E-DCH Power Offset for Scheduling Info* IE, then the DRNS 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 *SixteenQAM UL Operation Indicator* IE in the *E-DCH FDD Information To Modify* IE, the DRNS 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 DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [41]. If SixteenQAM UL Operation is deactivated, then the DRNS shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [41].]
- [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 DRNS 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 DRNC 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:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Add* IE, then the DRNS shall use this information to add the indicated E-DCH MAC-d flows.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [FDD The DRNS may use the *Traffic Class* IE for a specific E-DCH MAC-d flow to determine the transport bearer characteristics to apply between DRNC and Node B. If *TrCH Source Statistics Descriptor* IE is present with the value "RRC" in the *E-DCH MAC-d Flows Information* IE, then the DRNC should ignore the *Traffic Class* IE.]
- [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 To Add* IE, the DRNS shall use this information to optimise MAC-e scheduling decisions.]

### [FDD - E-DCH MAC-d Flow Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E-DCH MAC-d Flows To Delete* IEs, then the DRNS shall use this information to delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration 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 UE Context, then the DRNC shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

### [TDD - Intra- DRNS 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 DRNS 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.]
- [3.84Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE in the *E-DCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [1.28Mcps TDD The Node B shall allocate E-AGCH parameters and E-HICH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response* IE and the *E-HICH Specific Information Response* IE in the *E-DCH Information Response* 1.28Mcps IE in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [7.68Mcps TDD The DRNS shall allocate E-AGCH parameters corresponding to the E-DCH and include the *E-AGCH Specific Information Response 7.68Mcps* IE in the *E-DCH TDD Information Response 7.68Mcps* 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 DRNS to determine the transport bearer characteristics to apply in the uplink 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 DRNS 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 DRNS shall apply the parameters to the new configuration]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an *E*- *TFCS* Information IE, the DRNS 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 and *E-DCH TDD Information* IE.]

### [1.28Mcps TDD - E-DCH Setup:]

[1.28cps 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 and *E-DCH TDD Information LCR* IE.]

### [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 and *E-DCH TDD Information* 7.68Mcps IE.]

### [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 DRNS 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 UE Context, then the DRNS shall delete the E-DCH configuration from the UE Context and release the E-DCH resources.]

[TDD- If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH MAC-d Flows To Add* IE, then:]

- [TDD- 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 DRNS shall use this information to optimise MAC-e scheduling decisions.]

### [3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information TDD* IE in the *E-DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

### [1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information LCR TDD* IE in the *E-DCH Information Response 1.28Mcps* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - The DRNS shall determine any non-scheduled resource to be granted for the radio link, and return this in the *E-DCH Non-scheduled Grant Information* 7.68Mcps *TDD* IE in the *E-DCH Information Response* 7.68Mcps IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### [3.84Mcps TDD - E-DCH Modification:]

[3.84Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information* 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 DRNS shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [3.84Mcps TDD If the *E-DCH TDD Information* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

### [1.28Mcps TDD - E-DCH Modification:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information LCR* IE, then:]

- [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 DRNS 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 Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [1.28Mcps TDD If the *E-DCH TDD Information LCR* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS 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 DRNS shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

### [7.68Mcps TDD - E-DCH Modification:]

[7.68Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *E-DCH TDD Information 7.68Mcps* IE, then:]

- [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 DRNS 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 Processing Overload Level* IE, then if the DRNS could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the *E-DCH Processing Overload Level* IE, because of a processing issue, the DRNS shall notify the SRNC by initiating the Radio Link Failure procedure.]
- [7.68Mcps TDD If the *E-DCH TDD Information 7.68Mcps* IE includes the *E-DCH Power Offset for Scheduling Info* IE, then the DRNS shall use this value as a power offset 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 DRNS 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 contains a *TNL QoS* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *Maximum Number of Retransmissions for E-DCH* IE for an E-DCH MAC-d flow then the DRNS 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 includes the *E-DCH MAC-d Flow Retransmission Timer* IE for an E-DCH MAC-d flow then the DRNS shall use this information to set the retransmission timer.]
- [TDD- If the *TNL QoS* IE is included in the *E-DCH TDD Information to Modify* IE for an E-DCH MAC-d flow and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNS to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
- [TDD- If the *E-DCH TDD Information To Modify* IE includes the *E-DCH HARQ Power Offset TDD* IE for an E-DCH MAC-d flow the DRNS 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 DRNS shall use this information for the related resource allocation operation.]
- [TDD- If the *E-DCH TDD Information To Modify* IE contains the *E-DCH Grant Type* IE, the DRNS 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 DRNS 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 DRNS 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 DRNS shall apply the values in the new configuration.]
  - [TDD If the *E-DCH Logical Channel To Modify* IE includes *Scheduling Information* IE, the DRNS 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.]
- [TDD– If the *E-DCH TDD Information To Modify* IE includes the *MAC-e Reset Indicator* IE, then the DRNS shall use this value to determine whether MAC-e Reset is performed in the UE for sending the HARQ Failure Indication.]

General:

If the requested modifications are allowed by the DRNS, and if the DRNS has successfully allocated the required resources and changed to the new configuration, the DRNC shall respond to the SRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Specific DCH 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], the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH 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 HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

The DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the RADIO LINK RECONFIGURATION RESPONSE message for any Transport Channel [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included], HS-DSCH MAC-d flow being added or E-DCH 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], HS-DSCH MAC-d flow or E-DCH 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 [4], subclause 5.10.1, and in [32], subclause 5.3.2.

- [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 DRNC 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 DRNC establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC 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 DRNC does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the DRNC 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 Iur interface, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE only for one of the DCHs [FDD - for which the *Transport Bearer Not Requested Indicator* IE is not included] in the set of co-ordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the DRNS, the DRNC shall include the *Transport Layer Address* IE and the *Binding ID* IE [FDD for the concerned DCH for which the *Transport Bearer Not Requested Indicator* IE is not included]in the *DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message for only one of the combined Radio Links.

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the DRNS, the *E-DCH FDD Information Response* IE shall be included only for one of the combined E-DCH RLs.]

Any allowed rate for the uplink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

Any allowed rate for the downlink of a modified DCH provided for the old configuration will not be valid for the new configuration. If the DRNS needs to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) in the new configuration for a Radio Link, the DRNC shall

include in the RADIO LINK RECONFIGURATION RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE for this Radio Link.

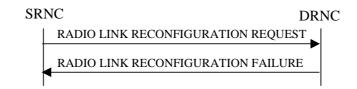
The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s), and the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link when these values are changed.

[FDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power* IE or lower than indicated by the *Minimum DL TX Power* IE on any DL DPCH or on the F-DPCH of the RL except, if the UE Context is configured to use DPCH in the downlink, during compressed mode, when 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 7.68 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular DCH type CCTrCHs, the DRNC shall include the new value(s) for that CCTrCH in the *CCTrCH Maximum DL TX Power* IE and *CCTrCH Minimum DL TX Power*. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE/CCTrCH Maximum DL TX Power IE or lower than indicated by the appropriate *Minimum DL TX Power* IE/CCTrCH Minimum DL TX Power IE on any DL DPCH within each CCTrCH of the RL.]

[1.28 Mcps TDD - If the DL TX power upper or lower limit has been re-configured, the DRNC shall include the new value(s) in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the maximum or minimum power needs to be different for particular timeslots within a DCH type CCTrCH, the DRNC shall include the new value(s) for that timeslot in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE. The DRNS shall not transmit with a higher power than indicated by the appropriate *Maximum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or lower than indicated by the appropriate *Minimum DL TX Power* IE or any DL DPCH within each timeslot of the RL.]

### 8.3.7.3 Unsuccessful Operation



### Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the DRNS cannot allocate the necessary resources for all the new DCHs in a set of co-ordinated DCHs requested to be added, it shall reject 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 DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

Typical cause values are:

#### **Radio Network Layer Causes:**

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- CM not Supported;
- E-DCH not supported;
- [FDD Continuous Packet Connectivity DTX-DRX operation not Supported;]

- [FDD Continuous Packet Connectivity HS-SCCH less operation not Supported;]
- [FDD MIMO not supported;]
- [FDD E-DCH TTI2ms 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 SixteenQAM UL not Supported;]
- HS-DSCH MAC-d PDU Size Format not supported.

#### **Miscellaneous Causes:**

- Control Processing Overload;
- Not enough User Plane Processing Resources.

### 8.3.7.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed, and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

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 DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC 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 UE Context set to "Common" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Individual DL Reference Power Information* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC 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 UE Context set to "Individual" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Common DL Reference Power* IE, the DRNS shall reject the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with 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 DRNC shall reject the Unsynchronised Radio Link Reconfiguration procedure, and the DRNC shall respond with a 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 DRNC 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 DRNS, the DRNC 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 DRNC 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 UE Context, the DRNS 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 DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE 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 MACd PDU Size Extended, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned UE 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 DRNC 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 UE Context, the DRNC 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 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 DRNS shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If any of the *HS-DSCH Configured Indicator* IE, *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 DRNS 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 UE Context is not configured for E-DCH, then the DRNC 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 DRNC 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 DRNC 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 DRNC 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 DRNC 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 UE Context is not configured for E-DCH, the DRNC 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 DRNC 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 UE Context, the DRNC 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 in addition to the *Continuous Packet Connectivity DTX-DRX Information* IE, then the DRNC 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 DRNC had ignored the configuration of Transport Format Set for uplink, the DRNC 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 DRNC had ignored the configuration of Transport Format Set for downlink, the DRNC 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 or an E-DCH MAC-d flow 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 or does not contain the corresponding *E-DCH MAC-d Flow ID* IE in *E-DCH MAC-d Flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned UE Context is configured to apply MIMO or allowed to apply 64QAM but is not configured to use flexible MAC-d PDU Size, then the DRNC 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 DRNC 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 an E-DCH MAC-d flow in the *RL Specific E-DCH Information* IE but does not include the *E-DCH MAC-d flow ID* IE for the E-DCH MAC-d flow in the *E-DCH MAC-d flows Information* IE, the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

# 8.3.8 Physical Channel Reconfiguration

## 8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNS to request the SRNC to reconfigure one of the configured physical channels.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNS shall not initiate the Physical Channel Reconfiguration procedure if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a Synchronised Radio Link Reconfiguration Preparation procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing for the relevant UE context.

### 8.3.8.2 Successful Operation

SR	SRNC DR	
1	PHYSICAL CHANNEL RECONFIGURATION REQUEST	
	PHYSICAL CHANNEL RECONFIGURATION COMMAND	

### Figure 16: Physical Channel Reconfiguration procedure, Successful Operation

When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

The PHYSICAL CHANNEL RECONFIGURATION REQUEST message contains the new value(s) of the physical channel parameter(s) of the radio link for which the DRNC is requesting the reconfiguration.

[FDD - If compressed mode is prepared or active and at least one of the downlink compressed mode methods is "SF/2", the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message indicating for each DL Channelisation Code whether the alternative scrambling code will be used or not if the downlink compressed mode methods "SF/2" is activated.]

[TDD - The SRNC shall apply the new values for any of [3.84Mcps TDD - *UL Code Information* IE, *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD - *UL Code Information LCR* IE, *Midamble Shift LCR* IE,] [7.68 Mcps TDD - *UL Code Information* 7.68 Mcps IE, *Midamble Shift And Burst Type* 7.68 Mcps IE,] TDD DPCH Offset IE, Repetition Period IE, Repetition Length IE, or TFCI presence IE included in the UL DPCH Information IE within the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the previous values specified for this DPCH shall still apply.]

[TDD - The SRNC shall apply the new values for any of [3.84Mcps TDD - *DL Code Information* IE, *Midamble Shift And Burst Type* IE,] [1.28Mcps TDD - *DL Code Information LCR* IE, *Midamble Shift LCR* IE,] [7.68 Mcps TDD - *DL Code Information* 7.68 Mcps IE, *Midamble Shift And Burst Type* 7.68 Mcps IE,] *TDD DPCH Offset* IE Repetition *Period* IE, Repetition Length IE, or *TFCI presence* IE included in the *DL DPCH Information* IE within the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the previous values specified for this DPCH shall still apply.]

[3.84 Mcps TDD - If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information* IE the SRNC shall apply the values of the *Midamble Shift And Burst Type* IE for each HS-PDSCH timeslot.]

[1.28 Mcps TDD - If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information LCR* IE the SRNC shall apply the values of the *Midamble Shift LCR* IE for each HS-PDSCH timeslot.]

[1.28 Mcps TDD – if the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes the *PLCCH Information* IE the SRNC shall modify, delete or grant a new PLCCH assignment to the indicated timeslot of the indicated UL DCH-type CCTrCH according to its content.]

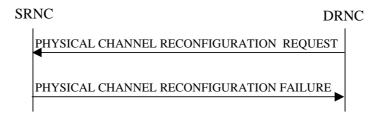
[7.68 Mcps TDD - If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *HS-PDSCH Timeslot Specific Information 7.68 Mcps* IE the SRNC shall apply the values of the *Midamble Shift And Burst Type 7.68 Mcps* IE for each HS-PDSCH timeslot.]

[FDD - If the PHYSICAL CHANNEL RECONFIGURATION REQUEST includes *F-DPCH Slot Format* IE the SRNC shall apply the values of the *F-DPCH Slot Formats* IE for F-DPCH Slot Format operation.]

Upon receipt of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. The SRNC shall respond with a PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the *CFN* IE indicating the execution time.

At the CFN, the DRNS shall switch to the new configuration that has been requested, and release the resources related to the old physical channel configuration.

### 8.3.8.3 Unsuccessful Operation



### Figure 17: Physical Channel Reconfiguration procedure, Unsuccessful Operation

If the SRNC cannot accept the reconfiguration request it shall send the PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC, including the reason for the failure in the *Cause* IE.

Typical cause values are:

### **Radio Network Layer Causes:**

- Reconfiguration not Allowed.

### 8.3.8.4 Abnormal Conditions

While waiting for the PHYSICAL CHANNEL RECONFIGURATION COMMAND message, if the DRNC receives any of the RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST messages, the DRNC shall abort the Physical Channel Reconfiguration procedure. These messages thus override the DRNC request for physical channel reconfiguration.

When the SRNC receives a PHYSICAL CHANNEL RECONFIGURATION REQUEST message while a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing, the SRNC shall ignore the request message and assume that receipt of any of the messages RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST or RADIO LINK DELETION REQUEST by the DRNC has terminated the Physical Channel Reconfiguration procedure. In this case the SRNC shall not send a PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC.

## 8.3.9 Radio Link Failure

### 8.3.9.1 General

This procedure is started by the DRNS when one or more Radio Links [FDD - or Radio Link Sets][TDD - or CCTrCHs within a Radio Link] are no longer available.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNS may initiate the Radio Link Failure procedure at any time after establishing a Radio Link.

### 8.3.9.2 Successful Operation

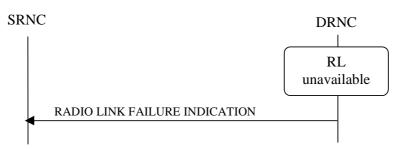


Figure 18: Radio Link Failure procedure, Successful Operation

When the DRNC 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 shall send the RADIO LINK FAILURE INDICATION message to the SRNC. The message indicates the failed Radio Link(s) [FDD - or Radio Link Set(s)] [TDD - or CCTrCHs] with the most appropriate cause values defined in the *Cause* IE. If the failure concerns one or more individual Radio Links the DRNC shall include the affected Radio Link(s) using the *RL Information* IE. [FDD - If the failure concerns one or more Radio Link Set(s) the DRNC shall include the affected Radio Link Set(s) using the *RL Set Information* IE.] [TDD - If the failure of one or more CCTrCHs within in a radio link the DRNC shall include the affected CCTrCHs within in a radio link the DRNC shall include the affected CCTrCHs using the *CCTrCH ID* IE.]

When the RL Failure procedure is used to notify 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 synchronisation detection algorithm defined in ref. [10] subclause 4.3 and [22] subclause 4.4.2.

[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* IE set to "Invalid CM Settings". After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the DRNS shall not remove the Radio Link(s)/Radio Link Set(s) from the UE Context, or remove the UE 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) [FDD - or 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 DRNS shall not remove the Radio Link from the UE Context, or remove the UE Context itself. When applicable, the allocation retention priorities associated with the transport channels shall be used by the DRNS to prioritise which Radio Links to indicate as unavailable to the SRNC.

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.
- 8.3.9.3 Abnormal Conditions

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## 8.3.10 Radio Link Restoration

### 8.3.10.1 General

This procedure is used to notify establishment and re-establishment of UL synchronisation of one or more [FDD - RL Set(s)] [TDD - Radio Links or CCTrCH(s) in a Radio Link] on the Uu interface.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Radio Link Restoration procedure at any time after establishing a Radio Link.

### 8.3.10.2 Successful Operation



### Figure 19: Radio Link Restoration procedure, Successful Operation

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when and as specified by the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 and [22] subclause 4.4.2 [FDD -, or when the *Fast Reconfiguration Mode* IE has been included in the RADIO LINK RECONFIGURATION COMMIT message and the DRNS 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.]

[TDD - If the re-established UL Uu synchronisation concerns one or more individual Radio Links the DRNC shall include in the RADIO LINK RESTORE INDICATION message the *RL Information* IE to indicate the affected Radio Link(s). If the re-established synchronisation concerns one or more individual CCTrCHs within a radio link the DRNS shall include in the RADIO LINK RESTORE INDICATION message the *RL Information* IE to indicate the affected CCTrCHs.] [FDD - If the re-established UL Uu synchronisation concerns one or more Radio Link Sets the DRNC shall include in the RADIO LINK RESTORE INDICATION message the *RL Set Information* IE to indicate the affected Radio Link Sets (s).]

[FDD – The DRNC shall send the RADIO LINK RESTORE INDICATION message when the E-DCH processing issue condition has ceased.]

### 8.3.10.3 Abnormal Conditions

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# 8.3.11 Dedicated Measurement Initiation

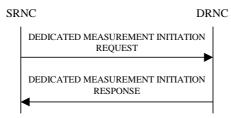
### 8.3.11.1 General

This procedure is used by an SRNS to request the initiation of dedicated measurements in a DRNS.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.11.2 Successful Operation



### Figure 20: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the SRNC to the DRNC.

Upon receipt, the DRNC shall initiate the requested dedicated measurement according to the parameters given in the DEDICATED MEASUREMENT INITIATION REQUEST message.

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 the 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 the 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 UE 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 UE 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 the existing and future Radio Link Sets within the UE Context.]

[TDD - If the *DPCH ID* IE or *DPCH ID* 7.68Mcps IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually. If no *DPCH ID* IE, *DPCH ID* 7.68Mcps IE or *HS-SICH ID* IE is provided within the RL Information the measurement request shall apply for one existing DPCH per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this DPCH.]

[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 DRNS shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this UE Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the DRNS shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

#### **Report characteristics**

The *Report Characteristics* IE indicates how the reporting of the dedicated 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 DRNS shall report the measurement result immediately in the DEDICATED MEASUREMENT INITIATION RESPONSE message. 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 [26].

If the *Report Characteristics* IE is set to "Periodic" and if the *CFN* IE is not provided, the DRNS shall immediately and periodically initiate the Dedicated Measurement Reporting procedure for this measurement, with a frequency as

specified by the *Report Periodicity* IE. If the *CFN* IE is provided, the DRNS shall initiate a Dedicated Measurement Reporting procedure for this measurement at the CFN indicated in the *CFN* IE, and shall repeat this initiation periodically thereafter with a frequency as specified by the *Report Periodicity* IE. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26].

If the *Report Characteristics* IE is set to "Event A", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold, as specified by the *Measurement Threshold* IE, and then stays above the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold, as specified by the *Measurement Threshold* IE, and then stays below the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the DRNC shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this rise occurs within the requested rising time specified by the *Measurement Change Time* IE. After reporting this type of event, DRNS shall not initiate the next C event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event D", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this falls occurs within the requested falling time specified by the *Measurement Change Time* IE. After reporting this type of event, the DRNS shall not initiate the next D event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event E", the DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the *Measurement Threshold 1* IE and stays above the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity falls below the *Measurement Threshold 2* IE and stays below the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC 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 DRNS shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the *Measurement Threshold 1* IE and stays below the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the DRNS shall initiate the Dedicated Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity rises above the *Measurement Threshold 2* IE and stays above the threshold for the *Measurement Hysteresis Time* IE, the DRNS shall initiate the Dedicated Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the DRNS shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the DRNC 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 DRNS 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(s) for which a measurement is defined exists any more, the DRNS shall terminate the measurement locally without reporting this to the SRNC.

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 DRNS 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 dedicated 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 DRNS 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 8.3.12.2.

### **Response message**

If the DRNS was able to initiate the measurement requested by the SRNS it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message.

In the case in which the Report Characteristics IE is set to "On Demand":

- The DRNC shall include the measurement result in the *Dedicated Measurement Value* IE within the DEDICATED MEASUREMENT INITIATION RESPONSE message.
- If the *CFN Reporting Indicator* IE is set to "FN Reporting Required", the *CFN* IE shall be included in the DEDICATED MEASUREMENT INITIATION RESPONSE message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].
- [TDD If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the DPCH ID of that DPCH in the [1.28Mcps TDD and 3.84Mcps TDD -DPCH ID IE] [7.68Mcps TDD - DPCH ID 7.68Mcps IE].]
- [TDD If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

[FDD – If the *Alternative Format Reporting Indicator* IE is set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNC may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

## 8.3.11.3 Unsuccessful Operation

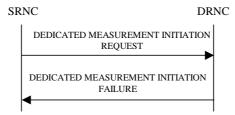


Figure 21: Dedicated Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated for one of the RL/RLS, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

If the DEDICATED MEASUREMENT INITIATION REQUEST message includes the *Partial Reporting Indicator* IE, the DRNS shall, if partial reporting is supported, separate the unsuccessful measurement initiations from the successful measurement initiations. For the successful measurement initiations on a RL or an RLS, the DRNS shall include the *Successful RL Information* IE or the *Successful RL Set Information* IE for the concerned RL or RLS if the Report *Characteristics* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message was set to "On Demand". For the unsuccessful measurement initiations, the DRNS shall include the *Individual Cause* IE set to an appropriate value if it differs from the value of the *Cause* IE.

Typical cause values are:

### **Radio Network Layer Causes:**

- Measurement not Supported For The Object
- Measurement Temporarily not Available

### **Miscellaneous Causes:**

- Control Processing Overload
- HW Failure

## 8.3.11.4 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 DRNS shall reject the Dedicated Measurement Initiation procedure using the DEDICATED MEASUREMENT INITIATION FAILURE message.

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	Х	Х	Х	Х	Х	Х	
RSCP	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation	Х	Х	Х	Х			Х	Х	
Round Trip Time	Х	Х	Х	Х	Х	Х	Х	Х	
Rx Timing Deviation LCR	Х	Х	Х	Х			Х	Х	
HS-SICH Reception Quality	Х	Х	Х	Х			Х	Х	
Angle Of Arrival	Х	Х							
Rx Timing Deviation 7.68Mcps	Х	Х	Х	Х			Х	Х	
Rx Timing Deviation 3.84Mcps Extended	Х	Х	Х	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. [11] or [14] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the DRNS shall reject the Dedicated Measurement Initiation procedure.

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 DRNS shall reject the Dedicated Measurement Initiation procedure, and the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message.

# 8.3.12 Dedicated Measurement Reporting

## 8.3.12.1 General

This procedure is used by the DRNS to report the results of the successfully initiated measurements requested by the SRNS with the Dedicated Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link.

# 8.3.12.2 Successful Operation



### Figure 22: Dedicated Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the DRNS shall initiate the Dedicated Measurement Reporting procedure. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the DRNC may include dedicated measurement values in the *Dedicated Measurement Value Information* IE for multiple objects in the DEDICATED MEASUREMENT REPORT message.

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

If the achieved measurement accuracy does not fulfil the given accuracy requirement specified in ref. [23] and [24] or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported in the *Dedicated Measurement Value Information* IE in the DEDICATED MEASUREMENT REPORT message, otherwise the DRNC shall include the *Dedicated Measurement Value* IE within the *Dedicated Measurement Value Information* IE. If the DRNC was configured to perform the Measurement Recovery Behavior, the DRNC shall indicate Measurement Available to the SRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [23] and [24]) and include the *Measurement Recovery Report Indicator* IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

If the CFN Reporting Indicator when initiating the measurement with the Dedicated Measurement Initiation procedure was set to "FN Reporting Required", the DRNC shall include the *CFN* IE in the DEDICATED MEASUREMENT REPORT message. The reported CFN shall be the CFN at the time when the dedicated measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26].

[TDD - If the measurement was made on a particular DPCH, the DEDICATED MEASUREMENT REPORT message shall include the DPCH ID of that DPCH in the [1.28Mcps TDD and 3.84Mcps TDD - *DPCH ID* IE] [7.68Mcps TDD - *DPCH ID* 7.68Mcps IE].]

[TDD - If the measurement was made on a particular HS-SICH, the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the ID of that HS-SICH in the *HS-SICH ID* IE.]

[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 DRNC may include the *Extended Round Trip Time* IE in the DEDICATED MEASUREMENT REPORT message.]

# 8.3.12.3 Abnormal Conditions

# 8.3.13 Dedicated Measurement Termination

## 8.3.13.1 General

This procedure is used by the SRNS to terminate a measurement previously requested by the Dedicated Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Dedicated Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.13.2 Successful Operation



## Figure 23: Dedicated Measurement Termination procedure, Successful Operation

This procedure is initiated with a DEDICATED MEASUREMENT TERMINATION REQUEST message, sent from the SRNC to the DRNC.

Upon receipt, the DRNS shall terminate reporting of dedicated measurements corresponding to the received *Measurement ID* IE.

# 8.3.13.3 Abnormal Conditions

# 8.3.14 Dedicated Measurement Failure

## 8.3.14.1 General

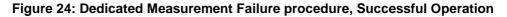
This procedure is used by the DRNS to notify the SRNS that a measurement previously requested by the Dedicated Measurement Initiation procedure can no longer be reported. When partial reporting is allowed and supported, this procedure shall be used to report that measurement for one or more RL/RLS can no longer be reported.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The DRNC may initiate the Dedicated Measurement Failure procedure at any time after establishing a Radio Link.

# 8.3.14.2 Successful Operation





This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the DRNC to the SRNC, to inform the SRNC that a previously requested dedicated measurement can no longer be reported. The DRNC has locally terminated the indicated measurement. The DRNC shall include in the DEDICATED MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

The DRNS shall include *Unsuccessful RL Information* IE or the *Unsuccessful RL Set Information* IE for the concerned RL or RLS if partial reporting is allowed and it is supported. The DRNS shall include the *Individual Cause* IE set to an appropriate value if it differs from the value of the *Cause* IE.

Typical cause values are:

### **Miscellaneous Causes:**

- Control Processing Overload
- HW Failure
- O&M Intervention

## 8.3.14.3 Abnormal Conditions

# 8.3.15 Downlink Power Control [FDD]

## 8.3.15.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more radio links for one UE.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Downlink Power Control procedure may be initiated by the SRNC at any time after establishing a Radio Link. If the SRNC has initiated in this DRNS the deletion of the last Radio Link for this UE context, the Downlink Power Control procedure shall not be initiated.

## 8.3.15.2 Successful Operation



### Figure 25: Downlink Power Control procedure, Successful Operation

The Downlink Power Control procedure is initiated by the SRNC sending a DL POWER CONTROL REQUEST message to the DRNC.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is "Common", the DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "Common". As long as the Power Balancing Adjustment Type of the UE Context is set to "Common", the DRNS shall perform the power adjustment (see below) for all existing and future radio links for the UE Context and use a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "Individual". The DRNS shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Power per RL. If the Power Balancing Adjustment Type of the UE 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 DRNS shall set the Power Balancing Adjustment Type of the UE Context set to "None" and the DRNS shall suspend on going power adjustments for all radio links for the UE Context.

If the *Inner Loop DL PC Status* IE is present and set to "Active", the DRNS shall activate inner loop DL power control for all radio links for the UE Context. If the *Inner Loop DL PC Status* IE is present and set to "Inactive", the DRNS shall deactivate inner loop DL power control for all radio links for the UE 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:

$$\sum P_{bal} = (1 - r)(P_{ref} + P_{P-CPICH} - P_{init})$$
 with an accuracy of ±0.5 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 DRNC.

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.

# 8.3.15.3 Abnormal Conditions

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# 8.3.16 Compressed Mode Command [FDD]

# 8.3.16.1 General

The Compressed Mode Command procedure is used to activate or deactivate the compressed mode in the DRNS for one UE-UTRAN connection. This procedure shall use the signalling bearer connection for the relevant UE Context.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.16.2 Successful Operation



## Figure 26: Compressed Mode Command procedure, Successful Operation

The procedure is initiated by the SRNC sending a COMPRESSED MODE COMMAND message to the DRNC.

Upon receipt of the COMPRESSED MODE COMMAND message from the SRNC and at the CFN indicated in the *CM Configuration Change CFN* IE, the DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE

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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 UE Context is configured to use F-DPCH in the downlink, the DRNS shall ignore, when activating the Transmission Gap Pattern Sequence(s), the downlink compressed mode method information, if existing, for the concerned Transmission Gap Pattern Sequence(s) in the Compressed Mode Configuration.

# 8.3.16.3 Abnormal Conditions

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# 8.3.17 Downlink Power Timeslot Control [TDD]

## 8.3.17.1 General

The purpose of this procedure is to provide the DRNS with updated DL Timeslot ISCP values to use when deciding the DL TX Power for each timeslot.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The Downlink Power Timeslot Control procedure can be initiated by the SRNC at any time after establishing a Radio Link. If the SRNC has initiated deletion of the last Radio Link in this DRNS, the Downlink Power Timeslot Control procedure shall not be initiated.

# 8.3.17.2 Successful Operation



Figure 26A: Downlink Power Timeslot Control procedure, Successful Operation

The Downlink Power Timeslot Control procedure is initiated by the SRNC sending a DL POWER TIMESLOT CONTROL REQUEST message to the DRNC.

Upon receipt of the DL POWER TIMESLOT CONTROL REQUEST message, the DRNS shall use the included [3.84Mcps TDD and 7.68 Mcps TDD - *DL Timeslot ISCP Info* IE] [1.28Mcps TDD - *DL Timeslot ISCP Info* LCR IE] value when deciding the DL TX Power for each timeslot as specified in [22], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link in which the interference is low, and increase the DL TX power in those timeslots in which 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 DRNS shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], 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 DRNS shall assume that the reported value is in the non-negative range as per [24], 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 DRNS shall assume that the reported value is in the non-negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE. The DRNS should use the indicated value for HS-DSCH scheduling and transmit power adjustment.

# 8.3.17.3 Abnormal Conditions

# 8.3.18 Radio Link Pre-emption

# 8.3.18.1 General

This procedure is started by the DRNS when resources need to be freed.

This procedure shall use the signalling bearer connection for the UE Context associated with the RL to be pre-empted.

The DRNS may initiate the Radio Link Pre-emption procedure at any time after establishing a Radio Link.

# 8.3.18.2 Successful Operation



## Figure 26B: Radio Link Pre-emption procedure, Successful Operation

When DRNC detects that one or more Radio Link(s) should be pre-empted (see Annex A), it shall send the RADIO LINK PREEMPTION REQUIRED INDICATION message to the SRNC. If all Radio Links for a UE Context should be pre-empted, the *RL Information* IE shall not be included in the message. If one or several but not all Radio Link(s) should be pre-empted for an UE Context, the Radio Link(s) 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 SRNC.

[FDD – If only the E-DCH traffic on a Radio Link should be pre-empted, the DRNC shall indicate the EDCH MAC-d flows that should be pre-empted by including the *E-DCH MAC-d Flow Specific Information* IE in the RADIO LINK PREEMPTION REQUIRED INDICATION message.]

When only the HS-DSCH traffic on a Radio Link should be pre-empted, the DRNC shall indicate the HS-DSCH MACd flow(s) that should be pre-empted by including the *HS-DSCH MAC-d Flow Specific Information* IE in the RADIO LINK PREEMPTION REQUIRED INDICATION message.

# 8.3.18.3 Abnormal Conditions

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# 8.3.19 Radio Link Congestion

# 8.3.19.1 General

This procedure is started by the DRNS when resource congestion is detected and the rate of one or more DCHs, corresponding to one or more radio links, is preferred to be limited in the UL and/or DL. This procedure is also used by the DRNC to indicate to the SRNC any change of the UL/DL resource congestion situation, affecting these radio links. This procedure shall use the signalling bearer connection for the relevant UE Context.

The Radio Link Congestion procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.19.2 Successful Operation



### Figure 26C: Radio Link Congestion procedure, Successful Operation

### Start of an UL/DL Resource Congestion Situation

When the DRNC detects the start of a UL/DL resource congestion situation and prefers the rate of one or more DCHs for one or more Radio Link(s) to be limited below the maximum rate currently configured in the UL/DL TFS, it shall send the RADIO LINK CONGESTION INDICATION message to the SRNC. The DRNC shall indicate the cause of the congestion in the *Congestion Cause* IE and shall indicate all the Radio Links for which the rate of a DCH needs to be reduced. For each DCH within the RL with UL congestion, the DRNC shall indicate the desired maximum UL data rate with the *Allowed UL Rate* IE in the *Allowed Rate Information* IE. For each DCH within the RL with DL congestion, the DRNC shall indicate the desired maximum DL data rate with the *Allowed DL Rate* IE in the *Allowed Rate Information* IE.

[FDD – For each E-DCH MAC-d flow within the RL with UL congestion, the DRNC shall indicate all the MAC-d flows for which the rate cannot be fullfilled.]

When receiving the RADIO LINK CONGESTION INDICATION message the SRNC should reduce the rate in accordance with the *Congestion Cause* IE and the indicated *Allowed DL Rate* IE and/or *Allowed UL Rate* IE for a DCH.

### Change of UL/DL Resource Congestion Situation

The DRNC shall indicate any change of the UL/DL resource congestion situation by sending the RADIO LINK CONGESTION INDICATION message in which the new allowed rate(s) of the DCHs are indicated by the *Allowed Rate Information* IE. In the case that for at least one DCH the new allowed rate is lower than the previously indicated allowed rate for that DCH, the *Congestion Cause* IE, indicating the cause of the congestion, shall also be included.

When receiving a RADIO LINK CONGESTION INDICATION message indicating a further rate decrease on any DCH(s) on any RL, the SRNC should reduce the rate in accordance with the indicated congestion cause and the indicated allowed rate(s) for the DCH(s).

### End of UL/DL Resource Congestion Situation

The end of an UL resource congestion situation, affecting a specific RL, shall be indicated by including the TF corresponding to the highest data rate in the *Allowed UL Rate* IE in the *Allowed Rate Information* IE for the concerned RL. The end of a DL resource congestion situation, affecting a specific RL, shall be indicated by including the TF with the highest data rate in the *Allowed DL Rate* IE in the *Allowed Rate Information* IE for the concerned RL.

# 8.3.19.3 Abnormal Conditions

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# 8.3.20 Radio Link Activation

## 8.3.20.1 General

This procedure is used to activate or de-activate the DL transmission on the Uu interface regarding selected RLs.

## 8.3.20.2 Successful Operation



Figure 26D: Radio Link Activation procedure

This procedure is initiated by sending the RADIO LINK ACTIVATION COMMAND message from the SRNC to the DRNC. This procedure shall use the signalling bearer connection for the relevant UE Context.

Upon receipt, the DRNS 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 [4].]
    - [TDD start transmission on the new RL immediately as specified in [4].]
  - 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 [4], 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 [4].]
  - [FDD the DRNS 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 8.3.7).]
  - [TDD the DRNS 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 DRNS 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 DRNS 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".

### 8.3.20.3 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 DRNC shall initiate the ERROR INDICATION procedure.]

# 8.3.21 Radio Link Parameter Update

## 8.3.21.1 General

The Radio Link Parameter Update procedure is executed by the DRNS to update parameters related to HS-DSCH on a radio link for a UE-UTRAN connection or to update phase reference on a list of the radio links.

This procedure shall use the signalling bearer connection for the relevant UE context.

The Radio Link Parameter Update procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.21.2 Successful Operation



Figure 26E: Radio Link Parameter Update Indication, Successful Operation

The Radio Link Parameter Update procedure is initiated by the DRNS by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the SRNC.

### **HS-DSCH** related Parameter(s) Updating:

If RADIO LINK PARAMETER UPDATE INDICATION message is used to update the parameters related to HS-DSCH, it contains suggested value(s) of the HS-DSCH related parameter(s) that should be reconfigured on the radio link.

If the DRNS needs to update HS-DSCH related parameters, the DRNS 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 DRNS needs to allocate new HS-SCCH Codes, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-SCCH Code Change Indicator* IE.

[FDD - If the DRNS needs to allocate new HS-PDSCH Codes, the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *HS-PDSCH Code Change Indicator* IE.]

[FDD - If the DRNS 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 DRNS 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 DRNS needs to update the TDD ACK-NACK Power Offset the DRNS shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *TDD ACK-NACK Power Offset* IE.]

### [FDD – Phase Reference Handling:]

[FDD – If DRNS needs to update phase reference for the channel estimation for one or several Radio Links, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *Phase Reference Update Information* IE for the concerned RL(s).]

## [FDD – E-DCH:]

[FDD – If DRNS needs to update E-DCH related parameters, the DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH FDD Update Information* IE.]

[FDD - If the DRNS needs to update the HARQ process allocation for non-scheduled transmission and/or HARQ process allocation for scheduled Transmission, the DRNS 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 DRNS 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 DRNC shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including *E-DCH DL Control Channel Change Information* IE.]

## 8.3.21.3 Abnormal Conditions

# 8.3.22 UE Measurement Initiation [TDD]

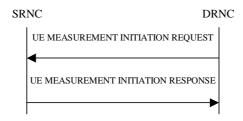
## 8.3.22.1 General

This procedure is used by a DRNC to request the initiation of UE measurements by the SRNC.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The UE Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

# 8.3.22.2 Successful Operation



## Figure 26F: UE Measurement Initiation procedure, Successful Operation

The procedure is initiated with a UE MEASUREMENT INITIATION REQUEST message sent from the DRNC to the SRNC.

Upon receipt the SRNC shall, provided that it determines that the measurement can be performed by the UE, initiate and forward the requested UE measurement according to the parameters given in the UE MEASUREMENT INITIATION REQUEST message. If the UE MEASUREMENT INITIATION REQUEST message includes the UE Measurement Parameter Modification Allowed IE with a value of "Parameter Modification Allowed" the UE Measurement Report Characteristics IE and the Measurement Filter Coefficient IE, if it is included, are suggested values, otherwise the values of these parameters must be fulfilled.

[3.84 Mcps TDD - If the *UE Measurement Timeslot Information HCR* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information HCR* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

[1.28 Mcps TDD – If the *UE Measurement Timeslot Information LCR* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information LCR* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

[7.68 Mcps TDD - If the *UE Measurement Timeslot Information 7.68 Mcps* IE is provided, the measurement request shall apply for the requested timeslot(s) individually. If the *UE Measurement Timeslot Information 7.68 Mcps* IE are not provided the SRNC may choose the timeslots for measurements that apply to individual timeslots.]

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If the UE MEASUREMENT INITIATION REQUEST message includes the *Allowed Queuing Time* IE the SRNC may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

The SRNC is required to perform reporting for a UE measurement object, in accordance with the conditions provided in the UE MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no UE measurement object(s) for which a measurement is defined exists any more, the SRNC shall terminate the measurement locally without reporting this to the DRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event 1h, Event 1i,Event 6a, Event 6b, Event 6c, or Event 6d, the SRNC shall initiate the UE Measurement Reporting procedure immediately, and then continue with the measurements as specified in the UE MEASUREMENT INITIATION REQUEST message

At the start of a periodic measurement, the SRNC shall not initiate UE Measurement Reporting procedure until the next measurement is received from the UE, even if measurement data is available.

#### **Report characteristics**

The UE Measurement Report Characteristics IE indicates how the reporting of the dedicated measurement shall be performed. See [16].

#### **Higher layer filtering**

The *Measurement Filter Coefficient* IE indicates how filtering of the dedicated measurement values shall be performed before measurement event evaluation and reporting. If the *Measurement Filter Coefficient* IE is not present, *a* shall be set to 1 (no filtering). The use of the *Measurement Filter Coefficient* IE is shown in [16].

### **Response message**

If the SRNC was able to initiate the measurement requested by the DRNC it shall respond with the UE MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the UE MEASUREMENT INITIATION REQUEST message.

If the DRNC allowed parameter modification and the SRNC modified the *Measurement Filter Coefficient* IE the SRNC shall include the modified value in the UE MEASUREMENT INTIATION RESPONSE message.

If the DRNC allowed parameter modification and the SRNC modified the *UE Measurement Report Characteristics* IE the SRNC shall include the modified value in the UE MEASUREMENT INTIATION RESPONSE message.

## 8.3.22.3 Unsuccessful Operation



### Figure 26G: UE Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated, the SRNC shall send a UE MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the UE MEASUREMENT INITIATION REQUEST message and shall include the *Cause* IE set to an appropriate value.

Typical cause values are:

#### **Radio Network Layer Causes:**

- Measurement not Supported For The Object
- Measurement Temporarily not Available
- Measurement Repetition Rate not Compatible with Current Measurements

- UE not Capable to Implement Measurement

### **Miscellaneous Causes:**

- Control Processing Overload
- HW Failure

8.3.22.4 Abnormal Conditions

# 8.3.23 UE Measurement Reporting [TDD]

# 8.3.23.1 General

This procedure is used by the SRNC to report the results of the successfully initiated measurements requested by the DRNC with the UE Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The SRNC may initiate the UE Measurement Reporting procedure at any time after establishing a Radio Link.

# 8.3.23.2 Successful Operation



## Figure 26H: UE Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria was met in the UE and reported to the SRNC, the SRNC shall initiate the UE Measurement Reporting procedure. The *Measurement ID* IE shall be set to the Measurement ID provided by the DRNC when initiating the measurement with the UE Measurement Initiation procedure.

If Primary CCPCH RSCP is being reported:

- If the *Primary CCPCH RSCP Delta* IE is included, the DRNC shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [24], and the value is equal to the *Primary CCPCH RSCP Delta* IE.
- If the *Primary CCPCH RSCP Delta* IE is not included the DRNC shall assume that the reported value is in the non negative range as per [24], and the value is equal to the *Primary CCPCH RSCP* IE

If the achieved measurement accuracy does not fulfil the given accuracy requirement specified in ref. [24], the Measurement not available shall be reported in the *UE Measurement Value Information* IE in the UE MEASUREMENT REPORT message, otherwise the SRNC shall include the *UE Measurement Value* IE within the *UE Measurement Value Information* IE.

# 8.3.23.3 Abnormal Conditions

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# 8.3.24 UE Measurement Termination [TDD]

## 8.3.24.1 General

This procedure is used by the DRNC to terminate a measurement previously requested by the UE Measurement Initiation procedure.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The UE Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

## 8.3.24.2 Successful Operation



### Figure 26I: UE Measurement Termination procedure, Successful Operation

This procedure is initiated with a UE MEASUREMENT TERMINATION REQUEST message, sent from the DRNC to the SRNC.

Upon receipt, the SRNC shall terminate forwarding of UE measurements corresponding to the received *Measurement ID* IE.

## 8.3.24.3 Abnormal Conditions

8.3.25 UE Measurement Failure [TDD]

### 8.3.25.1 General

This procedure is used by the SRNC to notify the DRNC that a measurement previously requested by the UE Measurement Initiation procedure can no longer be reported.

This procedure shall use the signalling bearer connection for the relevant UE Context.

The SRNC may initiate the UE Measurement Failure procedure at any time after establishing a Radio Link.

### 8.3.25.2 Successful Operation



### Figure 26J: UE Measurement Failure procedure, Successful Operation

This procedure is initiated with a UE MEASUREMENT FAILURE INDICATION message, sent from the SRNC to the DRNC, to inform the DRNC that a previously requested UE measurement can no longer be reported. The SRNC has locally terminated the forwarding of the indicated measurement. The SRNC shall include in the UE MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

Typical cause values are:

### **Miscellaneous Causes:**

- Control Processing Overload
- HW Failure
- O&M Intervention

## 8.3.25.3 Abnormal Conditions

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8.3.26 lur Invoke Trace

## 8.3.26.1 General

The purpose of the Iur Invoke Trace procedure is to inform the DRNC that it should begin a Trace Session for a given UE Context according to the Trace Parameters indicated by the SRNC. This procedure is used for Trace Parameter Propagation in the Signalling Based Activation mechanism as defined in [48] and [49].

This procedure shall use the signalling bearer mode specified below.

## 8.3.26.2 Successful Operation



### Figure 26K: lur Invoke Trace procedure, Successful Operation

The Iur Invoke Trace procedure is invoked by the SRNC by sending an IUR INVOKE TRACE message to the DRNC.

When the concerned UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receiving the IUR INVOKE TRACE message, the DRNC should begin a Trace Recording Session according to the parameters indicated in the IUR INVOKE TRACE message.

If the *List Of Interfaces To Trace* IE is included in the IUR INVOKE TRACE message, the DRNC shall trace, for the concerned UE Context, the interfaces indicated by the *List Of Interfaces To Trace* IE. Otherwise, the DRNC shall trace, for the concerned UE Context, the Iur and Iub interfaces.

The values of the *UE Identity* IE, *Trace Reference* IE and *Trace Recording Session Reference* IE are used to tag the Trace Record to allow simpler construction of the total record by the entity which combines Trace Records.

If the DRNC does not support the requested value "Minimum" or "Medium" of the *Trace Depth* IE, the DRNC should begin a Trace Recording Session with maximum Trace Depth.

The DRNC may not start a Trace Recording Session if there are insufficient resources available within the DRNC.

### 8.3.26.3 Abnormal Conditions

# 8.3.27 Iur Deactivate Trace

## 8.3.27.1 General

The purpose of the Iur Deactivate Trace procedure is to inform the DRNC that it should stop a Trace Session for the concerned UE Context and the indicated Trace Reference. This procedure is used for the Signalling Based Deactivation mechanism as defined in [48] and [49].

This procedure shall use the signalling bearer mode specified below.

# 8.3.27.2 Successful Operation



## Figure 26L: lur Invoke Trace procedure, Successful Operation

The Iur Deactivate Trace procedure is invoked by the SRNC by sending an IUR DEACTIVATE TRACE message to the DRNC.

When the concerned UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If on the other hand, the UE is not utilising any radio link the message shall be sent using the connectionless service of the signalling bearer and the *D*-*RNTI* IE shall be included in the message to identify the UE Context in the DRNC.

Upon receiving the IUR DEACTIVATE TRACE message, the DRNC shall stop for the concerned UE Context any ongoing Trace Recording Session for the Trace Session identified by the *Trace Reference* IE.

# 8.3.27.3 Abnormal Conditions

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# 8.4 Common Transport Channel Procedures

# 8.4.1 Common Transport Channel Resources Initialisation

# 8.4.1.1 General

The Common Transport Channel Resources Initialisation procedure is used by the SRNC for the initialisation of the Common Transport Channel user plane towards the DRNC and/or for the initialisation of the Common Transport Channel resources in the DRNC to be used by a UE.

This procedure shall use the connectionless mode of the signalling bearer.

## 8.4.1.2 Successful Operation

SRNC	DRNC
COMMON TRANSPORT CHANNEL RESOURCES REQUEST	
COMMON TRANSPORT CHANNEL RESOURCES RESPONSE	

### Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST message to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE. The DRNC may use the *Transport Layer Address* and *Binding ID* IEs included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message received from the SRNC when establishing a transport bearer for the common transport channel. In addition, the DRNC shall include its own *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the DRNC to determine the transport bearer characteristics to apply in the uplink between the DRNS and the SRNC for the related common transport channels.

If the value of the *Transport Bearer Request Indicator* IE is set to" Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH and/or FACH [FDD - and/or HS-DSCH] resources previously allocated for the UE in another cell than the cell in which resources are currently being allocated, the DRNS shall release the previously allocated RACH and/or FACH resources [FDD - and/or HS-DSCH].

If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

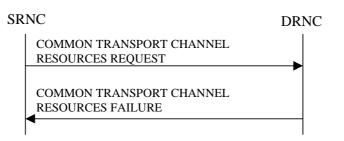
If the *Permanent NAS UE Identity* IE is present in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can reserve resources on a common transport channel in this cell or not.

If the *MBMS Bearer Service List* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6. If an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *C-ID* IE, the DRNC shall include in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE for each of these active MBMS bearer services in the COMMON TRANPORT CHANNEL RESOURCES RESPONSE message.

[FDD - If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message includes an *Enhanced FACH* Support Indicator IE, the DRNC may include the *Enhanced FACH Information Response* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If a HS-DSCH RNTI was not previously allocated to the UE or a new HS-DSCH RNTI is allocated to the UE, the DRNC shall include the *HS-DSCH-RNTI* IE in the *Enhanced FACH Information Response* IE. And if Enhanced PCH operation is activated in the cell indicated by the *C-ID* IE, the DRNC shall include the *Priority Queue Information for Enhanced PCH* IE in the *Enhanced FACH Information Response* IE.]

# 8.4.1.3 Unsuccessful Operation



## Figure 28: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall reject the procedure and respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available for the considered UE Context, the DRNC shall reject the procedure and send the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

Typical cause values are:

## **Radio Network Layer Causes:**

- Common Transport Channel Type not Supported;
- Cell reserved for operator use.

## **Transport Layer Causes:**

- Transport Resource Unavailable.

# 8.4.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL RESOURCES 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 DRNC shall reject the procedure using the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message.

# 8.4.2 Common Transport Channel Resources Release

# 8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

## 8.4.2.2 Successful Operation



### Figure 29: Common Transport Channel Resources Release procedure, Successful Operation

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD - USCH and/or DSCH]) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH and/or FACH [FDD - and/or HS-DSCH] resources allocated for the UE.

8.4.2.3 Abnormal Conditions

8.5 Global Procedures

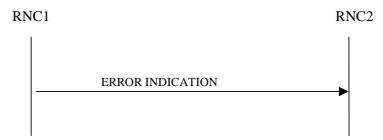
# 8.5.1 Error Indication

## 8.5.1.1 General

The Error Indication procedure is initiated by a node to report detected errors in a received message, provided they cannot be reported by an appropriate response message.

This procedure shall use the signalling bearer mode specified below.

# 8.5.1.2 Successful Operation



### Figure 30: Error Indication procedure, Successful Operation

When the conditions defined in clause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node. This message shall use the same mode of the signalling bearer and the same signalling bearer connection (if connection oriented) as the message that triggers the procedure.

When the ERROR INDICATION message is sent from a DRNC to an SRNC using connectionless mode of the signalling bearer, the *S-RNTI* IE shall be included in the message if the UE Context addressed by the *D-RNTI* IE which was received in the message triggering the Error Indication procedure exists. When the ERROR INDICATION message is sent from an SRNC to a DRNC using connectionless mode of the signalling bearer, the *D-RNTI* IE shall be included in the message if available.

When a message using connectionless mode of the signalling bearer is received in the DRNC and there is no UE Context in the DRNC as indicated by the *D-RNTI* IE, the DRNC shall include the D-RNTI from the received message in the *D-RNTI* IE and set the *Cause* IE to "Unknown RNTI" in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

When a message using connectionless mode of the signalling bearer is received in the SRNC and there is no UE in the SRNC as indicated by the *S-RNTI* IE, the SRNC shall include the *S-RNTI* from the received message in the *S-RNTI* IE and set the *Cause* IE to "Unknown RNTI" 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 to indicate the reason for the error indication.

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

### 8.5.1.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the error indication procedure as specified in section 8.5.1.2.

### 8.5.1.3 Abnormal Conditions

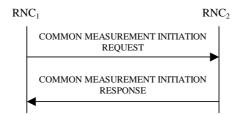
# 8.5.2 Common Measurement Initiation

### 8.5.2.1 General

This procedure is used by an RNC to request the initiation of measurements of common resources to another RNC. The requesting RNC is referred to as  $RNC_1$  and the RNC to which the request is sent is referred to as  $RNC_2$ .

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

## 8.5.2.2 Successful Operation



### Figure 30A: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the RNC<sub>1</sub> to the RNC<sub>2</sub>.

Upon receipt, the RNC<sub>2</sub> 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 [3.84 Mcps TDD and 7.68 Mcps TDD - *Time Slot* IE] [1.28 Mcps - *Time Slot LCR* IE] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

### **Common measurement type**

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", then:

- The RNC<sub>2</sub> shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by the *Reference Cell Identifier* IE and the neighbouring cells identified by the *UTRAN Cell Identifier* IE (*UC-ID*) in the *Neighbouring Cell Measurement Information* IE.
- [3.84 Mcps TDD The RNC<sub>2</sub> shall perform the measurement using the time slot specified in the *Time Slot* IE in the *Neighbouring TDD Cell Measurement Information* IE and using the midamble shift and burst type specified in the *Midamble Shift And Burst Type* IE in the *Neighbouring TDD Cell Measurement Information* IE. If *Time Slot* IE and *Midamble Shift And Burst Type* IE are not available in the *Neighbouring TDD Cell Measurement Information* IE, the RNC<sub>2</sub> may use any appropriate time slots, midamble shifts and burst types to make the measurement.]
- [7.68 Mcps TDD The RNC<sub>2</sub> shall perform the measurement using the time slot specified in the *Time Slot* IE in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE and using the midamble shift and burst type specified in the *Midamble Shift And Burst Type 7.68 Mcps* IE in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE. If *Time Slot* IE and *Midamble Shift And Burst Type 7.68 Mcps* IE are not available in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE are not available in the *Neighbouring TDD Cell Measurement Information 7.68 Mcps* IE, the RNC<sub>2</sub> may use any appropriate time slots, midamble shifts and burst types to make the measurement.]

If the *Common Measurement Type* IE is set to "load", the RNC<sub>2</sub> shall initiate measurements of uplink and downlink load on the measured object identified by the *Reference Cell Identifier* IE. If either uplink or downlink load satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink measurements.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", "UTRAN GANSS Timing of Cell Frames for UE Positioning", "transmitted carrier power", "received total wide band power", or "UL timeslot ISCP" the RNC<sub>2</sub> shall initiate measurements on the measured object identified by the *Reference Cell Identifier* IE.

If the *Common Measurement Type* IE is set to "RT load", the RNC<sub>2</sub> shall initiate measurements of uplink and downlink estimated share of RT (Real Time) traffic of the load of the measured object. If either uplink or downlink RT load satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink measurements.

If the *Common Measurement Type* IE is set to "NRT load Information", the RNC<sub>2</sub> shall initiate measurements of uplink and downlink NRT (Non Real Time) load situation on the measured object. If either uplink or downlink NRT load satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink measurements.

### **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 RNC<sub>2</sub> shall report the result of the requested measurement immediately in the COMMON MEASUREMENT INITIATION RESPONSE message. 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 [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference ", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the *Reference Cell Identifier* IE.

If the *Report Characteristics* IE is set to "Periodic" and if the *SFN* IE is not provided, the RNC<sub>2</sub> shall immediately and periodically initiate a Common Measurement Reporting procedure for this measurement, with a frequency as specified by the *Report Periodicity* IE. If the *SFN* IE is provided, the RNC<sub>2</sub> shall initiate a Common Measurement Reporting procedure for this measurement at the SFN indicated in the *SFN* IE, and shall repeat this initiation periodically thereafter with a frequency as specified by the *Report Periodicity* IE. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26]. Furthermore, if the *SFN* IE is

present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference ", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the *Reference Cell Identifier* IE.

If the *Report Characteristics* IE is set to "Event A", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold, as specified by the *Measurement Threshold* IE, and then stays above the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event B", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold, as specified by the *Measurement Threshold* IE, and then stays below the threshold for the requested hysteresis time, as specified by the *Measurement Hysteresis Time* IE. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to "Event C", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity rises more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this rise occurs within the requested rising time specified by the *Measurement Change Time* IE. After reporting this type of event, the RNC<sub>2</sub> shall not initiate the next C event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event D", the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls more than the requested threshold specified by the *Measurement Increase/Decrease Threshold* IE, and only when this fall occurs within the requested falling time specified by the *Measurement Change Time* IE. After reporting this type of event, the RNC<sub>2</sub> shall not initiate the next D event reporting for the same measurement during the subsequent time specified by the *Measurement Change Time* IE.

If the *Report Characteristics* IE is set to "Event E", the RNC<sub>2</sub>shall initiate the Common Measurement Reporting procedure when the measured entity rises above the *Measurement Threshold 1* IE and stays above the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity falls below the *Measurement Threshold 2* IE and stays below the threshold for the *Measurement Hysteresis Time* IE, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the RNC<sub>2</sub> shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> 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 RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure when the measured entity falls below the *Measurement Threshold 1* IE and stays below the threshold for the *Measurement Hysteresis Time* IE (Report A). When the conditions for Report A are met and if the *Report Periodicity* IE is provided, the RNC<sub>2</sub> shall initiate the Measurement Reporting procedure periodically with the requested report frequency specified by the *Report Periodicity* IE. If the conditions for Report A have been met and the measured entity rises above the *Measurement Threshold 2* IE and stays above the threshold for the *Measurement Hysteresis Time* IE, the RNC<sub>2</sub> shall initiate the Common Measurement Reporting procedure (Report B) and shall terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the RNC<sub>2</sub> shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the RNC<sub>2</sub> shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the RNC<sub>2</sub> shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the first 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 [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN* IE relates to the Radio Frames of the Reference Cell identifier IE. Following the first measurement report, the RNC<sub>2</sub> 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 *T<sub>UTRAN-GPS</sub> Change Limit* IE is included in the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE, the RNC<sub>2</sub> shall calculate the change of T<sub>UTRAN-GPS</sub> value (F<sub>n</sub>) each time a new measurement result is received after point C in the measurement model [26]. The RNC<sub>2</sub> 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<sub>UTRAN-GPS</sub> Change Limit* IE. The change of T<sub>UTRAN-GPS</sub> value (F<sub>n</sub>) is calculated according to the following:

 $F_n=0$  for n=0

 $F_n = (M_n - M_{n-1}) \mod 37158912000000 - ((SFN_n - SFN_{n-1}) \mod 4096) *10*3.84*10^3*16 + F_{n-1} \qquad for n > 0$ 

 $F_n$  is the change of the T<sub>UTRAN-GPS</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.

 $M_n$  is the latest measurement result received after point C in the measurement model [26], measured at SFN<sub>n</sub>.

 $M_{n-1}$  is the previous measurement result received after point C in the measurement model [26], measured at SFN<sub>n-1</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [26], after first Common Measurement Reporting at initiation or after the last event was triggered.

 $M_0$  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.

If the *Predicted*  $T_{UTRAN-GPS}$  *Deviation Limit* IE is included in the  $T_{UTRAN-GPS}$  *Measurement Threshold Information* IE, the RNC<sub>2</sub> shall update the P<sub>n</sub> and F each time a new measurement result is received after point C in the measurement model [26]. The RNC<sub>2</sub> 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:

 $P_n = b \text{ for } n = 0$ 

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

 $F_n = min((M_n - P_n) \mod 37158912000000, (P_n - M_n) \mod 37158912000000)$  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 [26], measured at SFN<sub>n</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [26], after first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GPS}$  Drift Rate is determined by the RNS<sub>2</sub> in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

- 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 RNC<sub>2</sub> shall calculate the change of SFN-SFN value (F<sub>n</sub>) each time a new measurement result is received after point C in the measurement model [26]. The RNC<sub>2</sub> 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 absolute value of 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

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

 $[\text{TDD} - F_n = (M_n - a) \mod 40960 \quad for n > 0]$ 

 $F_n$  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 [26], measured at SFN<sub>n</sub>.

 $M_1$  is the first measurement result received after point C in the measurement model [26], 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 RNC<sub>2</sub> shall each time a new measurement result is received after point C in the measurement model [26], update the P<sub>n</sub> and F<sub>n</sub>. The RNC<sub>2</sub> 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 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

 $[FDD - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + P_{n-1}) \mod 614400 \text{ for } n > 0]$ 

 $[FDD - F_n = min((M_n - P_n) \mod 614400, (P_n - M_n) \mod 614400) \quad for n > 0]$ 

 $[TDD - P_n = ((a/16) * (15*(SFN_n - SFN_{n-1})mod 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) mod 40960 \text{ for } n>0]$ 

 $[TDD - F_n = min((M_n - P_n) \mod 40960, (P_n - M_n) \mod 40960) \quad for n > 0]$ 

 $P_n$  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.

 $F_n$  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 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 [26], measured at the [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 [26], after first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the  $RNS_2$  in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

- 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 RNC<sub>2</sub> shall calculate the change of  $T_{UTRAN-GANSS}$  value (F<sub>n</sub>) each time a new measurement result is received after point C in the measurement model [26]. The RNC<sub>2</sub> 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  $T_{UTRAN-GANSS}$  Change Limit IE. The change of  $T_{UTRAN-GANSS}$  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 RNC<sub>2</sub> shall update the P<sub>n</sub> and F each time a new measurement result is received after point C in the measurement model [26]. The RNC<sub>2</sub> 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

 $P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \mod 4096)/100 + ((SFN_n - SFN_{n-1}) \mod 4096) * 10 * 3.84 * 10^{3} * 16 + P_{n-1}) \mod 530841600000$ 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  $T_{UTRAN-GANSSS}$  Drift Rate is determined by the RNS<sub>2</sub> in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

If the *Report Characteristics* IE is not set to "On Demand", the RNC<sub>2</sub> 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 any more, the RNC<sub>2</sub> shall terminate the measurement locally without reporting this to RNC<sub>1</sub>.

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  $RNC_2$  shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

#### **Common measurement accuracy**

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> shall use the  $T_{UTRAN-GPS}$  Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:.

- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates "Class A", then the concerned RNC<sub>2</sub> shall perform the measurement with the highest supported accuracy within the accuracy classes A, B or C.
- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates the "Class B", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy within the accuracy classes B and C.

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- If the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE indicates "Class C", then the concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy according to class C.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the concerned RNC<sub>2</sub> shall initiate the SFN-SFN observed Time Difference measurements between the reference cell identified by *UC-ID* IE and the neighbouring cells identified by their UC-ID. The *Report Characteristics* IE applies to each of these measurements.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE positioning", then the RNC<sub>2</sub> 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 concerned RNC<sub>2</sub> shall perform the measurement with the highest supported accuracy within the accuracy classes A, B or C.
- If the *T<sub>UTRAN-GANSS</sub> Measurement Accuracy Class* IE indicates the "Class B", then the concerned RNC<sub>2</sub> shall perform the measurements with the 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 concerned RNC<sub>2</sub> shall perform the measurements with the highest supported accuracy according to class C.

#### **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.

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

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC<sub>2</sub> 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 8.5.3.2.

#### **Response message**

If the RNC<sub>2</sub> was able to initiate the measurement requested by RNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message.

In the case in which the Report Characteristics IE is set to "On Demand" or "On Modification":

- The COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result. It shall also include 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".

- If the *Common Measurement Type* IE is not set to "SFN-SFN Observed Time Difference" and if the *SFN Reporting Indicator* IE is set to "FN Reporting Required", then the RNC<sub>2</sub> shall include the *SFN* IE in the COMMON MEASUREMENT INITIATION RESPONSE message,. 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 [26]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN Reporting Indicator* IE is ignored.

- If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the RNC<sub>2</sub> shall report all the available measurements in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE, and the RNC<sub>2</sub> shall report the neighbouring cells with no measurement result available in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE. For all available measurement results, the RNC<sub>2</sub> shall include in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE. For all available measurement results, the RNC<sub>2</sub> 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 RNC<sub>2</sub> 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 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 RNC<sub>2</sub> 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.

### 8.5.2.2.1 Successful Operation for lur-g

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the RNC<sub>1</sub> to the BSS<sub>2</sub> or from the BSS<sub>1</sub> to the RNC<sub>2</sub>/BSS<sub>2</sub>.

Upon receipt, the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate the requested measurement according to the parameters given in the request.

### Common measurement type on Iur-g

If the *Common Measurement Type* IE is set to "load", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

If the *Common Measurement Type* IE is set to "RT load", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

If the *Common Measurement Type* IE is set to "NRT load Information", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.2.2.

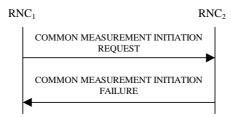
#### **Report characteristics on Iur-g**

The *Report Characteristics* IE indicates how the reporting of the measurement shall be performed. This IE is used as described in section 8.5.2.2.

#### **Response message for Iur-g**

If the RNC<sub>2</sub>/BSS<sub>2</sub> was able to initiate the measurement requested by RNC<sub>1</sub>/BSS<sub>1</sub> it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent. The message shall include the same Measurement ID that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On Demand", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result.

### 8.5.2.3 Unsuccessful Operation



### Figure 30B: Common Measurement Initiation procedure, Unsuccessful Operation

If the requested measurement cannot be initiated, the RNC<sub>2</sub> shall send a COMMON MEASUREMENT INITIATION FAILURE message. The message shall include the same *Measurement ID* IE that was used in the COMMON MEASUREMENT INITIATION REQUEST message and shall include 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

## 8.5.2.4 Abnormal Conditions

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 RNC<sub>2</sub> 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 RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GANSS}$  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 RNC<sub>2</sub> shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

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 RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

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 RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type received in the *Common Measurement Type* IE is not "load", "RT load" or "NRT load Information", and if the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. [11] or [15] to be measured on the Common Measurement Object Type indicated in the COMMON MEASUREMENT INITIATION REQUEST message the RNC<sub>2</sub> shall reject the Common Measurement Initiation 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 RNC<sub>2</sub> shall reject the Common Measurement Initiation 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 RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

### Table 5: Allowed Common Measurement Type and Report Characteristics Type Combinations

Common measurement type	Report characteristics type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received total wide band power	Х	Х	Х	Х	Х	Х	Х	Х	
Transmitted Carrier Power	Х	Х	Х	Х	Х	Х	Х	Х	
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	Х	
Load	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GPS Timing of Cell Frames for UE Positioning	x	X							X
SFN-SFN Observed Time Difference	Х	Х							Х
RT load	Х	Х	Х	Х	Х	Х	Х	Х	
NRT load Information	Х	Х	Х	х	Х	Х	х	Х	
UpPTS interference	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GANSS Timing of Cell Frames for UE Positioning	X	X							X

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD and 7.68 Mcps TDD - *Time Slot* IE] [1.28Mcps TDD – *Time Slot LCR* IE] is not provided in the COMMON MEASUREMENT INITIATION REQUEST message the RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

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 RNS<sub>2</sub> shall reject the Common Measurement Initiation procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

## 8.5.2.4.1 Abnormal Conditions for lur-g

The measurements which can be requested on the Iur and Iur-g interfaces are shown in the table below marked with "X".

Common Measurement Type	Interface			
	lur	lur-g		
Received total wide band power	Х			
Transmitted Carrier Power	Х			
UL Timeslot ISCP	Х			
Load	Х	Х		
UTRAN GPS Timing of Cell	Х			
Frames for LCS				
SFN-SFN Observed Time	Х			
Difference				
RT load	Х	Х		
NRT load Information	Х	Х		
UTRAN GANSS Timing of Cell	Х			
Frames for UE Positioning				

Table 6: Allowed Common measurement type on lur and lur-g interfaces

If the RNC<sub>2</sub> receives from the BSS<sub>1</sub> a COMMON MEASUREMENT INITIATION REQUEST message in which a measurement, which is not applicable on the Iur-g interface, is requested, the RNC<sub>2</sub> shall reject the Common Measurement Initiation procedure.

If the  $BSS_2$  receives from the  $BSS_1 / RNC_1$  a COMMON MEASUREMENT INITIATION REQUEST message in which a measurement, which is not applicable on the Iur-g interface, is requested, the  $BSS_2$  shall reject the Common Measurement Initiation procedure.

If the RNC<sub>2</sub> receives from the BSS<sub>1</sub> a COMMON MEASUREMENT INITIATION REQUEST message in which the *SFN reporting indicator* IE is set to "FN Reporting Required", the RNC<sub>2</sub> shall ignore that IE.

If the  $BSS_2$  receives from the  $BSS_1 / RNC_1$  a COMMON MEASUREMENT INITIATION REQUEST message in which the *SFN reporting indicator* IE is set to "FN Reporting Required", the  $BSS_2$  shall ignore that IE.

The allowed combinations of the Common measurement type and Report characteristics type are shown in the table in section 8.5.2.4 marked with "X". For not allowed combinations, the RNC<sub>2</sub>/BSS<sub>2</sub> shall reject the Common Measurement Initiation procedure.

# 8.5.3 Common Measurement Reporting

### 8.5.3.1 General

This procedure is used by an RNC to report the result of measurements requested by another RNC using the Common Measurement Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.3.2 Successful Operation



### Figure 30C: Common Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the  $RNC_2$  shall initiate the Common Measurement Reporting procedure. 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  $RNC_1$  when initiating the measurement with the Common Measurement Initiation procedure.

If the achieved measurement accuracy does not fulfil the given accuracy requirement (see ref. [23] and [24]) 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 RNC<sub>2</sub> was configured to perform the Measurement Recovery Behavior, the RNC<sub>2</sub> shall indicate Measurement Available to the RNC<sub>1</sub> when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [23] and [24]) 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 RNC<sub>2</sub> 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<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GPS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub> 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<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the RNC<sub>2</sub>

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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.

## 8.5.3.2.1 Successful Operation for lur-g

If the requested measurement reporting criteria are met, the  $RNC_2/BSS_2$  shall initiate a Measurement Reporting procedure. Unless specified below, the meaning of the parameters are given in other specifications.

The *Common Measurement ID* IE shall be set to the Common Measurement ID provided by RNC<sub>1</sub>/BSS<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure.

If the Common measurement type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was "SFN-SFN Observed Time Difference", then RNC<sub>2</sub> shall include in the COMMON MEASUREMENT REPORT all the available measurements in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and shall include the neighbouring cells with no measurement result available in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE.

If the Common measurement type provided by RNC<sub>1</sub> when initiating the measurement with the Common Measurement Initiation procedure was not set to "SFN-SFN Observed Time Difference" and the SFN Reporting Indicator when initiating the measurement was set to "FN Reporting Required", the RNC<sub>2</sub> shall include the *SFN* IE in the COMMON MEASUREMENT REPORT message. 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 [26]. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", then the *SFN Reporting Indicator* IE is ignored.

## 8.5.3.3 Abnormal Conditions

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# 8.5.4 Common Measurement Termination

## 8.5.4.1 General

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

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.4.2 Successful Operation



### Figure 30D: Common Measurement Termination procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message.

Upon receipt, RNC<sub>2</sub> shall terminate reporting of common measurements corresponding to the received *Measurement ID* IE.

## 8.5.4.2.1 Successful Operation for lur-g

The  $RNC_1/BSS_1$  and  $RNC_2/BSS_2$  shall use the Common Measurement Termination procedure as specified in section 8.5.4.2.

## 8.5.4.3 Abnormal Conditions

# 8.5.5 Common Measurement Failure

## 8.5.5.1 General

This procedure is used by an RNC to notify another RNC that a measurement previously requested by the Common Measurement Initiation procedure can no longer be reported.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.5.2 Successful Operation



### Figure 30E: Common Measurement Failure procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT FAILURE INDICATION message, sent from RNC<sub>2</sub> to RNC<sub>1</sub> to inform the RNC<sub>1</sub> that a previously requested measurement can no longer be reported. RNC<sub>2</sub> has locally terminated the indicated measurement. The RNC<sub>2</sub> shall include in the COMMON MEASUREMENT FAILURE INDICATION message the reason for the failure in the *Cause* IE.

## 8.5.5.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the Common Measurement Failure procedure as specified in section 8.5.5.2.

## 8.5.5.3 Abnormal Conditions

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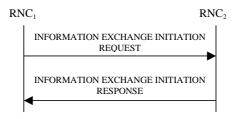
# 8.5.6 Information Exchange Initiation

## 8.5.6.1 General

This procedure is used by an RNC to request the initiation of an information exchange with another RNC.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

# 8.5.6.2 Successful Operation



## Figure 30F: Information Exchange Initiation procedure, Successful Operation

The procedure is initiated with an INFORMATION EXCHANGE INITIATION REQUEST message sent from RNC<sub>1</sub> to RNC<sub>2</sub>.

Upon receipt, the  $RNC_2$  shall provide the requested information according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

If the *Information Exchange Object Type* is set to "MBMS Bearer Service" and the *Information Type Item* IE is set to "MBMS Bearer Service Full Address", the RNC<sub>2</sub> shall report for each TMGI included in the received *MBMS Bearer Service Identifiers List* IE, the Access Point Name and the IP Multicast Address corresponding to this TMGI in the *MBMS Bearer Service Identifiers List* IE in the INFORMATION EXCHANGE INITIATION RESPONSE message.

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 RNC<sub>2</sub> 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 RNC<sub>2</sub> shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to "Periodic", the RNC<sub>2</sub> shall report the requested information immediately and then shall periodically initiate the Information Reporting procedure for all the requested information, with the report frequency indicated by the *Information Report Periodicity* IE.

If the *Information Report Characteristics* IE is set to "On Modification", the RNC<sub>2</sub> shall report the requested information immediately 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 RNC<sub>2</sub> shall initiate the Information Reporting procedure when the requested information becomes available. The RNC<sub>2</sub> shall then initiate the Information Reporting procedure in accordance to the following conditions:

- If the *Information Type Item* IE is set to "IPDL Parameters", the RNC<sub>2</sub> shall initiate the Information Reporting procedure when any change in the parameters occurs.
- If the *Information Type Item* IE is set to "DGPS Corrections", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Type 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.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Navigation Model & Recovery Assistance", the RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Ionospheric Model", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS UTC Model", the RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Almanac", the RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GPS Information" and the *GPS Information Item* IE includes "GPS Real-Time Integrity", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.
- If the *Information Type* IE is set to "Cell Capacity Class", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for uplink and downlink cell capacity class when any change has occurred. If either uplink or downlink cell capacity class satisfies the requested report characteristics, the RNC<sub>2</sub> shall report the result of both uplink and downlink cell capacity information.
- If any of the above *Information Type* IEs becomes temporarily unavailable, the RNC<sub>2</sub> 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 RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information.

- If the *Information Type* IE is set to "NACC related data", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for NACC related data if any change has occurred.
- If the *Information Type* IE is set to "Inter-frequency Cell Information", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Item when any change has occurred to the inter-frequency cell information broadcasted in the SIB11 or SIB12.
- If the *Information Type Item* IE is set to "DGANSS Corrections", the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific Information Type 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.
- 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 RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Ionospheric Model* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS UTC Model* IE, the RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Almanac* IE, the RNC<sub>2</sub> 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.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Real Time Integrity* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.
- If the *Information Type Item* IE is set to "GANSS Information" and the *GANSS Information* IE includes the *GANSS Data Bit Assistance* IE, the RNC<sub>2</sub> shall initiate the Information Reporting procedure for this specific GANSS Information Item when any change has occurred.

### **Response message:**

If the RNC<sub>2</sub> is able to determine the information requested by the RNC<sub>1</sub>, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message. The message shall include the *Information Exchange ID* IE set to the same value that was included in the INFORMATION EXCHANGE INITIATION REQUEST message. When the *Report Characteristics* IE is set to or "On Modification" or "Periodic", the INFORMATION EXCHANGE INITIATION RECHANGE INITIATION RESPONSE message shall contain the *Requested Data Value* IE if the data are available. When 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 [53]).

- 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 [53]).

### 8.5.6.2.1 Successful Operation for lur-g

The procedure is initiated with an INFORMATION EXCHANGE INITIATION REQUEST message sent from BSS<sub>1</sub> to BSS<sub>2</sub>/RNC<sub>2</sub> or by RNC<sub>1</sub> to BSS<sub>2</sub>.

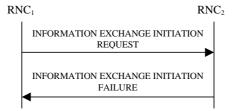
Upon receipt, the  $BSS_2/RNC_2$  shall provide the requested information according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

#### Information Report Characteristics on Iur-g:

If the *Information Type Item* IE is set to "Cell Capacity Class", the RNC<sub>2</sub>/BSS<sub>2</sub> shall initiate measurements and report results as described in section 8.5.6.2.

The *Information Report Characteristics* IE indicates how the reporting of the information shall be performed. This IE is used as described in section 8.5.6.2.

## 8.5.6.3 Unsuccessful Operation



### Figure 30G: Information Exchange Initiation procedure, Unsuccessful Operation

If the requested Information Type received in the *Information Type* IE indicates a type of information that RNC<sub>2</sub> cannot provide, the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure.

If the requested information provision cannot be accessed, the RNC<sub>2</sub> shall reject the procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

The message shall include the *Information Exchange ID* IE set to the same value 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.

## 8.5.6.4 Abnormal Conditions

If the *Information Report Characteristics* IE is set to "On Modification", and the *Information Type Item* IE is set to "DGPS Corrections", but the *Information Threshold* IE is not received in the INFORMATION EXCHANGE INITIATION REQUEST message, the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

If the *Information Exchange Object Type* IE is set to a value other than "GSM Cell" and the *Information Type Item* IE set to "NACC related data" the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

If the *Information Type Item* IE is set to the value "MBMS Bearer Service Full Address" and the *Information Exchange Object Type* IE is not set to "MBMS Bearer Service", the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure and shall send the INFORMATION EXCHANGE INITIATION FAILURE message.

The allowed combinations of the Information type and Information Report Characteristics type are shown in the table below marked with "X". For not allowed combinations, the RNC<sub>2</sub> shall reject the Information Exchange Initiation procedure using the INFORMATION EXCHANGE INITIATION FAILURE message.

#### Table 6a: Allowed Information Type and Information Report Characteristics type combinations

Туре	Information Report Characteristics Type						
	On Demand	Periodic	On Modification				
UTRAN Access	Х						
Point Position with							
Altitude Information							
UTRAN Access	Х						
Point Position							
IPDL Parameters	Х	Х	Х				
GPS Information	Х	Х	Х				
DGPS Corrections	Х	Х	Х				
GPS RX Pos	Х						
SFN-SFN	Х						
Measurement							
Reference Point							
Position							
Cell Capacity Class	Х		Х				
NACC related data	Х		Х				
MBMS Bearer	Х						
Service Full							
Address							
Inter-frequency Cell	Х		Х				
Information							
GANSS Information	Х	Х	Х				
DGANSS	Х	Х	Х				
Corrections							
GANSS RX Pos	Х						

#### 8.5.6.4.1 Abnormal Conditions for lur-g

The information types that can be requested on the Iur and Iur-g interfaces are shown in the table below marked with "X". For information types that are not applicable on the Iur-g interface, the BSS shall reject the Information Exchange Initiation procedure.

#### Table 7: Allowed Information types on lur and lur-g interfaces

Information Type	Interface	
	lur	lur-g
UTRAN Access Point Position	Х	
with Altitude Information		
UTRAN Access Point Position	Х	
IPDL Parameters	Х	
DGPS Corrections	Х	
GPS Information	Х	
GPS RX Pos	Х	
SFN-SFN Measurement	Х	
Reference Point Position		
Cell Capacity Class	Х	Х
NACC related data	Х	
MBMS Bearer Service Full	Х	
Address		
Inter-frequency Cell Information	Х	
DGANSS Corrections	Х	
GANSS Information	Х	
GANSS RX Pos	Х	

### 8.5.7 Information Reporting

#### 8.5.7.1 General

This procedure is used by a RNC to report the result of information requested by another RNC using the Information Exchange Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

#### 8.5.7.2 Successful Operation



#### Figure 30H: Information Reporting procedure, Successful Operation

If the requested information reporting criteria are met, the  $RNC_2$  shall initiate an Information Reporting procedure. 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  $RNC_1$  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.

#### 8.5.7.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the Information Reporting procedure as specified in section 8.5.7.2.

#### 8.5.7.3 Abnormal Conditions

# 8.5.8 Information Exchange Termination

#### 8.5.8.1 General

This procedure is used by a RNC to terminate the information exchange requested using the Information Exchange Initiation.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

### 8.5.8.2 Successful Operation



#### Figure 30I: Information Exchange Termination procedure, Successful Operation

This procedure is initiated with a INFORMATION EXCHANGE TERMINATION REQUEST message.

Upon receipt, the RNC<sub>2</sub> shall terminate the information exchange corresponding to the *Information Exchange ID* IE provided by the RNC<sub>1</sub> when initiating the information exchange with the Information Exchange Initiation procedure.

#### 8.5.8.2.1 Successful Operation for lur-g

The  $RNC_1/BSS_1$  and  $RNC_2/BSS_2$  shall use the Information Exchange Termination procedure as specified in section 8.5.8.2.

#### 8.5.8.3 Abnormal Conditions

### 8.5.9 Information Exchange Failure

#### 8.5.9.1 General

This procedure is used by a RNC to notify another that the information exchange it previously requested using the Information Exchange Initiation can no longer be reported.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

#### 8.5.9.2 Successful Operation



#### Figure 30J: Information Exchange Failure procedure, Successful Operation

This procedure is initiated with a INFORMATION EXCHANGE FAILURE INDICATION message, sent from the RNC<sub>2</sub> to the RNC<sub>1</sub>, to inform the RNC<sub>1</sub> that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The RNC<sub>2</sub> shall include in the INFORMATION EXCHANGE FAILURE INDICATION message the *Information Exchange ID* IE set to the same value provided by the RNC<sub>1</sub> when initiating the information exchange with the Information Exchange Initiation procedure, and the RNC<sub>2</sub> shall include the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

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

Information temporarily not available.

#### 8.5.9.2.1 Successful Operation for lur-g

The RNC<sub>1</sub>/BSS<sub>1</sub> and RNC<sub>2</sub>/BSS<sub>2</sub> shall use the Information Exchange Failure procedure as specified in section 8.5.9.2.

#### 8.5.10 Reset

#### 8.5.10.1 General

The purpose of the reset procedure is to align the resources in RNC1 and RNC2 in the event of an abnormal failure.

The procedure uses connectionless signalling.

#### 8.5.10.2 Successful Operation

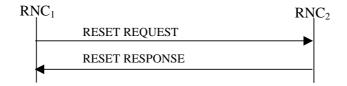


Figure 30K: Reset procedure, Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the RNC1 to the RNC2.

If the Reset Indicator IE is set to "Context", then:

- For all indicated UE Contexts identified by the *S-RNTI* IE, the RNC<sub>2</sub> in the role of DRNC, shall remove all the indicated UE Contexts and all the radio resources allocated for these UE Contexts. In addition, the RNC<sub>2</sub> shall take actions according to Annex D.2.

- For all indicated UE Contexts identified by the *D-RNTI* IE, the RNC<sub>2</sub> in the role of SRNC, shall remove the information related to the RNC<sub>1</sub> for all indicated UE Contexts and the radio resources allocated for these UE Contexts.

If the Reset Indicator IE is set to "Context Group", then:

- For all indicated UE Context Groups identified by the *S-RNTI Group* IE, the RNC<sub>2</sub> in the role of DRNC, shall remove all the indicated UE Contexts and all the radio resources allocated for these UE Contexts. In addition, the RNC<sub>2</sub> shall take actions according to Annex D.2.

If the *Reset Indicator* IE is set to "All Contexts", then the RNC<sub>2</sub> shall:

- In the role of DRNC, remove all the UE Contexts for which the RNC<sub>1</sub> is the SRNC and all the radio resources allocated for these UE Contexts. In addition, the RNC<sub>2</sub> shall take actions according to Annex D.2.

- In the role of SRNC, remove the information related to the  $RNC_1$  for all the UE Contexts and all the radio resources allocated for these UE Contexts.

For all the removed UE Contexts and for all the UE Contexts for which the  $RNC_2$  has removed information related to the  $RNC_1$ , the  $RNC_2$  shall also initiate release of the dedicated or common user plane resources that were involved in these UE Contexts. After clearing all related resources, the  $RNC_2$  shall return the RESET RESPONSE message to the  $RNC_1$ .

#### 8.5.10.3 Abnormal Conditions

If the RESET message is received, any other ongoing procedure (except another Reset procedure) on same Iur interface related to a context indicated explicitly or implicitly in the message shall be aborted.

### 8.5.11 Direct Information Transfer

#### 8.5.11.1 General

This procedure is used by an RNC to transfer information to another RNC spontaneously.

This procedure shall use the connectionless mode of signalling bearer.

#### 8.5.11.2 Successful Operation



#### Figure 30L: Direct Information Transfer procedure, Successful Operation

The procedure is initiated with an DIRECT INFORMATION TRANSFER message sent from RNC1 to RNC2.

If the initiating RNC of this procedure is RNC<sub>1</sub>, RNC<sub>1</sub> shall provide appropriate information in the *Provided Information* IE.

#### **MBMS Channel Type Indication:**

At the start time of a session for an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for some UEs whose UE Link contains the concerned MBMS bearer service and whose SRNC is  $RNC_2$  and if the channel type is determined by the RNC<sub>1</sub> for certain cells in the DRNS, the procedure shall be initiated by the RNC<sub>1</sub> to the RNC<sub>2</sub>. In this case, the RNC<sub>1</sub> shall include in the *Provided Information* IE the *Channel Type Information* IE in the DIRECT INFORMATION TRANSFER message.

During a session of an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for some UEs whose UE Link contains the concerned MBMS bearer service and whose SRNC is  $RNC_2$ , then the  $RNC_1$  may initiate this procedure to indicate channel type change for the MBMS bearer service in certain cells. In this case, the  $RNC_1$  shall include in the *Provided Information* IE the *Channel Type Information* IE in the DIRECT INFORMATION TRANSFER message.

The RNC<sub>1</sub> shall include the available information within the *PTM Cell List* IE, the *PTP Cell List* IE and/or the *Not Provided Cell List* IE in the *Channel Type Information* IE.

#### **MBMS Preferred Frequency Layer Indication:**

At the start time of a session for an MBMS bearer service, if the RNC<sub>1</sub> is in the DRNC role for at least one CELL\_DCH UE whose UE Link contains the concerned MBMS bearer service and whose SRNC is RNC<sub>2</sub> and if the preferred frequency layer is determined by the RNC<sub>1</sub> for certain cells that host at least one of these CELL\_DCH UEs whose SRNC is RNC<sub>2</sub>, the procedure shall be initiated by the RNC<sub>1</sub> to the RNC<sub>2</sub>. In this case, the RNC<sub>1</sub> shall include in the *Provided Information* IE the *Preferred Frequency Layer Information* IE in the DIRECT INFORMATION TRANSFER message.

If some of the cells controlled by RNC<sub>1</sub> that host at least one of these CELL\_DCH UEs whose SRNC is RNC<sub>2</sub> are configured with different preferred frequencies, the *Additional Preferred Frequency* IE as well as *Default Preferred Frequency* IE shall be included in the *Preferred Frequency Layer Information* IE. In this case, for each preferred frequency different from the *Default Preferred Frequency* IE, one *Additional Preferred Frequency* IE shall be included containing at least one *Corresponding Cells* IE.

# 8.6 MBMS Procedures

### 8.6.1 MBMS Attach

#### 8.6.1.1 General

The MBMS Attach procedure is used by the SRNC to either create a UE Link/URA Link in the DRNC or inform the DRNC about any addition of one or several MBMS bearer services in an already stored UE Link or URA Link.

This procedure shall use the signalling bearer mode specified below.

#### 8.6.1.2 Successful Operation



#### Figure 31: MBMS Attach procedure, Successful Operation

The SRNC initiates the procedure by sending the message MBMS ATTACH COMMAND message to the DRNC.

When the UE is utilising one or more radio links in the DRNC, the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If the UE is not utilising any radio link, the message shall be sent using the connectionless service of the signalling bearer.

If no *UE State* IE is included in the message or the *UE State* IE is set to "CELL\_FACH/CELL\_PCH", the DRNC shall perform the UE Linking as specified in [50], section 5.1.6.

If the UE State IE is set to "URA\_PCH", the DRNC shall perform the URA Linking as specified in [50], section 5.1.10.

#### 8.6.1.3 Abnormal Conditions

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### 8.6.2 MBMS Detach

#### 8.6.2.1 General

The MBMS Detach procedure is used by the SRNC to either delete a UE Link/URA Link in the DRNC or to inform DRNC about any removal of one or several MBMS bearer services in an already stored UE link or URA Link.

This procedure shall use the signalling bearer mode specified below.

#### 8.6.2.2 Successful Operation

SR	NC	DRNC
	MBMS DETACH COMMAND	

#### Figure 32: MBMS Detach procedure, Successful Operation

The SRNC initiates the procedure by sending the message MBMS DETACH COMMAND message to the DRNC.

When the UE is utilising one or more radio links in the DRNC, the message shall be sent using the connection oriented service of the signalling bearer and no further identification of the UE Context in the DRNC is required. If the UE is not utilising any radio link, the message shall be sent using the connectionless service of the signalling bearer.

If no *UE State* IE is included in the message or the *UE State* IE is set to "CELL\_FACH/CELL\_PCH", the DRNC shall perform the UE De-linking as specified in [50], section 5.1.6.

If the *UE State* IE is set to "URA\_PCH", the DRNC shall perform the URA De-linking as specified in [50], section 5.1.10.

#### 8.6.2.3 Abnormal Conditions

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# 9 Elements for RNSAP Communication

### 9.1 Message Functional Definition and Content

#### 9.1.1 General

This subclause defines the structure of the messages required for the RNSAP protocol 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, in which the tabular format shall take precedence.

NOTE: The messages have been defined in accordance to the guidelines specified in [28].

### 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.
С	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 the 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. Each group may be also repeated within one message. 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 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/IE groups.

### 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 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
SRNC-ID	М		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	reject
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	Μ		9.2.2.53		_	•
>Min UL Channelisation	М		9.2.2.25		-	
Code Length						
>Max Number of UL	C –		9.2.2.24		_	
DPDCHs	CodeLen					
>Puncture Limit	Μ		9.2.1.46	For the UL.	-	
>TFCS	Μ		9.2.1.63		-	
>UL DPCCH Slot Format	Μ		9.2.2.52		-	
>Uplink SIR Target	0		Uplink SIR 9.2.1.69		_	
>Diversity mode	М		9.2.2.8		_	
>Not Used	0		NULL		-	
>Not Used	0		NULL		-	
>DPC Mode	0		9.2.2.12A		YES	reject
>UL DPDCH Indicator for E- DCH operation	0		9.2.2.52A	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				-	
			9.2.1.63			
>DL DPCH Slot Format	М		9.2.2.9			
>Number of DL Channelisation Codes	М		9.2.2.26A		-	
>TFCI Signalling Mode	М	1	9.2.2.46	1	_	
>TFCI Presence	C- SlotFormat		9.2.1.55		-	
>Multiplexing Position	M		9.2.2.26		_	
>Power Offset Information		1			_	
>>P01	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	-	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	-	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	-	
>FDD TPC Downlink Step Size	Μ		9.2.2.16		_	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
>Limited Power Increase	M		9.2.2.21A		_	
>Inner Loop DL PC Status	M		9.2.2.21A		_	
DCH Information	M		DCH FDD		YES	reject
			Information		120	10,001
			9.2.2.4A			
RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		ofRLs>				,
>RL ID	Μ		9.2.1.49		_	
>C-ID	Μ		9.2.1.6		_	
>First RLS Indicator	Μ		9.2.2.16A		_	
>Frame Offset	Μ		9.2.1.30		-	
>Chip Offset	Μ		9.2.2.1		-	
>Propagation Delay	0		9.2.2.33		—	
>Diversity Control Field	C –		9.2.1.20		-	
	NotFirstRL					
>Initial DL TX Power	0		DL Power		-	
			9.2.1.21A			<u> </u>
>Primary CPICH Ec/No	0		9.2.2.32		_	<u> </u>
>Not Used	0	1	NULL		–	
>Transmit Diversity Indicator	C –		9.2.2.48		-	
	Diversity					
	mode					
>Enhanced Primary CPICH	0		9.2.2.131		YES	ignore
Ec/No	-					-
>RL Specific DCH	0		9.2.1.49A		YES	ignore
Information	-					-
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>Cell Portion ID	0		9.2.2.E		YES	ignore
>RL specific E-DCH	0		9.2.2.35a		YES	reject
Information	-					
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>Extended Propagation	0		9.2.2.33a		YES	ignore
Delay	0		0.0.0.454		N/50	
>Synchronisation Indicator	0		9.2.2.45A		YES	reject
Transmission Gap Pattern	0		9.2.2.47A		YES	reject
Sequence Information Active Pattern Sequence	0		0.0.0.1		VEO	
Information	0		9.2.2.A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignoro
DL Power Balancing	0		9.2.1.73 9.2.2.10A		YES	ignore
Information	0		9.2.2.10A		TES	ignore
HS-DSCH Information	0		HS-DSCH		YES	reject
HS-DSCH IIIOIIIalion	0		FDD		TES	reject
			Information			
			9.2.2.19a			
HS-PDSCH RL ID	C –		RL ID		YES	reject
	InfoHSDS		9.2.1.49		120	Tojoot
	CH		0.2.11.10			
MBMS Bearer Service List		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>notify</td></maxno<>			GLOBAL	notify
		ofMBMS>				
>TMGI	М	1	9.2.1.80		-	
E-DPCH Information	1	01	1		YES	reject
>Maximum Set of E-	М	1	9.2.2.24e		-	· ·
DPDCHs						
>Puncture Limit	М		9.2.1.46		_	
>E-TFCS Information	М		9.2.2.4G		-	
>E-TTI	М		9.2.2.4J		_	
>E-DPCCH Power Offset	М		9.2.2.4K		_	
>E-RGCH 2-Index-Step	М		9.2.2.64		_	
Threshold						
>E-RGCH 3-Index-Step	М		9.2.2.65		-	
Threshold						
>HARQ Info for E-DCH	Μ		9.2.2.66		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>HS-DSCH Configured	Μ		9.2.2.19C		-	
Indicator						
E-DCH FDD Information	C- EDCHInfo		9.2.2.4B		YES	reject
Serving E-DCH RL	0		9.2.2.38C		YES	reject
F-DPCH Information		01			YES	reject
>Power Offset Information		1			-	
>>PO2	М		Power Offset 9.2.2.30	This IE shall be ignored by DRNS.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>Limited Power Increase	М		9.2.2.21A		_	
>Inner Loop DL PC Status	М		9.2.2.21a		_	
>F-DPCH Slot Format Support Request	0		9.2.2.86		YES	reject
>F-DPCH Slot Format	0		9.2.2.85		YES	Ignore
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.21b		YES	ignore
DCH Indicator For E-DCH- HSDPA Operation	0		9.2.2.67		YES	reject
Serving Cell Change CFN	0		CFN 9.2.1.9		YES	reject
Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72		YES	reject
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		YES	reject
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Condition	Explanation
CodeLen	The IE shall be present if <i>Min UL Channelisation Code length</i> IE equals to 4
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.
NotFirstRL	The IE shall be present if the RL is not the first one in the RL Information IE.
Diversity mode	The IE shall be present if <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> IE is not equal to "none".
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.
EDCHInfo	This IE shall be present if <i>E-DPCH Information</i> IE is present.

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
SRNC-ID	М		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	reject
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
UL Physical Channel Information		1			YES	reject
>Maximum Number of Timeslots	Μ		9.2.3.3A	For the UL	-	
>Minimum Spreading Factor	Μ		9.2.3.4A	For the UL	-	
>Maximum Number of UL Physical Channels per Timeslot	М		9.2.3.3B		_	
>Support of 8PSK	0		9.2.3.7H	Applicable to 1.28Mcps TDD only	YES	ignore
>Minimum Spreading Factor 7.68Mcps	0		9.2.3.19	Applicable to 7.68Mcps TDD only	YES	ignore
DL Physical Channel Information		1			YES	reject
>Maximum Number of Timeslots	М		9.2.3.3A	For the DL	_	
>Minimum Spreading Factor	Μ		9.2.3.4A	For the DL	_	
>Maximum Number of DL Physical Channels	М		9.2.3.3C		-	
>Maximum Number of DL Physical Channels per Timeslot	0		9.2.3.3D		YES	ignore
>Support of 8PSK	0		9.2.3.7H	Applicable to 1.28Mcps TDD only	YES	ignore
>Support of PLCCH	0		9.2.3.16	Applicable to 1.28Mcps TDD only	YES	ignore

>Minimum Spreading Factor 7.68Mcps	0		9.2.3.19	Applicable to 7.68Mcps TDD only	YES	ignore
>Maximum Number of DL Physical Channels 7.68Mcps	0		9.2.3.20	Applicable to 7.68Mcps TDD only	YES	ignore
>Maximum Number of DL Physical Channels per Timeslot 7.68Mcps	0		9.2.3.21	Applicable to 7.68Mcps TDD only	YES	ignore
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH and USCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		-	
>Puncture Limit	Μ		9.2.1.46		-	
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
DL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М	02	9.2.3.2		_	
>TFCS	M		9.2.1.63	For the DL.	_	
>TFCI Coding	M		9.2.3.11	TOT THE DE.	_	
>Puncture Limit	M		9.2.1.46		_	
>TDD TPC Downlink Step	M		9.2.1.40		—	
Size	IVI		9.2.3.10		—	
>TPC CCTrCH List		0 <maxno CCTrCHs&gt;</maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		-	
DCH Information	0		DCH TDD Information 9.2.3.2A		YES	reject
DSCH Information	0		DSCH TDD Information 9.2.3.3a		YES	reject
USCH Information	0	1	9.2.3.15		YES	reject
RL Information	1	1			YES	reject
>RL ID	М	1	9.2.1.49		2	-1-01
			9.2.1.49		—	
>C-ID					_	
>C-ID >Frame Offset	Μ		9.2.1.6		-	
>Frame Offset	M M		9.2.1.6 9.2.1.30		_ _ _ _	
>Frame Offset >Special Burst Scheduling	M M M		9.2.1.6 9.2.1.30 9.2.3.7D		_	
>Frame Offset	M M		9.2.1.6 9.2.1.30	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only		
<ul> <li>&gt;Frame Offset</li> <li>&gt;Special Burst Scheduling</li> <li>&gt;Primary CCPCH RSCP</li> <li>&gt;DL Time Slot ISCP Info</li> <li>&gt;DL Time Slot ISCP Info</li> <li>LCR</li> </ul>	M M M O		9.2.1.6 9.2.1.30 9.2.3.7D 9.2.3.5	3.84Mcps TDD and	   YES	reject
<ul> <li>&gt;Frame Offset</li> <li>&gt;Special Burst Scheduling</li> <li>&gt;Primary CCPCH RSCP</li> <li>&gt;DL Time Slot ISCP Info</li> <li>&gt;DL Time Slot ISCP Info</li> </ul>	M M O O		9.2.1.6 9.2.1.30 9.2.3.7D 9.2.3.5 9.2.3.2D	3.84Mcps TDD and 7.68Mcps TDD only Applicable to 1.28Mcps	- - - -	reject

Information						
>Delayed Activation	0	1	9.2.1.19Aa		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		9.2.3.13J		_	
>>Uplink Synchronisation Frequency	М		9.2.3.131		_	
>Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-PDSCH RL ID	C - InfoHSDS CH		RL ID 9.2.1.49		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.49		YES	ignore
MBMS Bearer Service List		0 <maxno ofMBMS&gt;</maxno 			GLOBAL	notify
>TMGI	М		9.2.1.80		_	
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.36		_	
>E-TFCS Information TDD >E-DCH MAC-d Flows Information TDD	M		9.2.3.37 9.2.3.38		-	
>E-DCH TDD Information	М		9.2.3.40		_	
E-DCH Serving RL	0		9.2.1.49	TDD only	YES	reject
E-DCH Information 7.68Mcps		01		7.68Mcps TDD only	YES	reject
>E-PUCH Information	Μ		9.2.3.36		_	
>E-TFCS Information TDD	Μ		9.2.3.37		_	
>E-DCH MAC-d Flows Information TDD	Μ		9.2.3.38		_	
>E-DCH TDD Information 7.68Mcps	Μ		9.2.3.51		_	
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	М	ļ	9.2.3.36a		-	
>E-TFCS Information TDD	М	ļ	9.2.3.37		_	
>E-DCH MAC-d Flows Information TDD	М		9.2.3.38		_	
>E-DCH TDD Information LCR	М		9.2.3.40a		_	
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Condition	Explanation
InfoHSDSCH	This IE shall be present if HS-DSCH Information IE is present.

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Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.4 RADIO LINK SETUP RESPONSE

# 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,001
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.12		YES	ignore
RL Information Response		1 <maxno ofRLs&gt;</maxno 	3.2.1.11		EACH	ignore
>RL ID	M		9.2.1.49		_	
>RL Set ID	M		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		_	
Position					_	
>Received Total Wide Band Power	М		9.2.2.35A		—	
>Not Used	0		NULL		-	
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		_	
>CHOICE Diversity Indication	М		0.2.2.117		-	
>>Combining		<u> </u>				
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining		
>>>DCH Information Response	0		9.2.1.16A	combining	YES	ignore
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>Non Combining or First RL					_	
>>>DCH Information Response	М		9.2.1.16A		_	
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>SSDT Support Indicator	М	1	9.2.2.43		_	1
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Primary Scrambling Code	0	1	9.2.1.45		_	
>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	_	
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>Primary CPICH Power	М		9.2.1.44		_	
>Not Used	0		NULL		_	

IE/Group Name	Presence	Range	ІЕ Туре	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>PC Preamble	М		9.2.2.27a			
>SRB Delay	M		9.2.2.39A			
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>>TMGI	Μ		9.2.1.80		_	
>>Transmission Mode	0		9.2.1.81		_	
>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
<ul> <li>Initial DL DPCH Timing</li> <li>Adjustment</li> </ul>	0		DL DPCH Timing Adjustment 9.2.2.9A		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
>Frame Offset	0		9.2.1.30		YES	ignore
>Chip Offset	0		9.2.2.1		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	ignore
SixtyfourQAM DL Support Indicator	0		9.2.2.79		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

# 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		01	0.2.1.11	Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49	100	_	
>URA Information	0		9.2.1.49 9.2.1.70B			
>SAI	M		9.2.1.70B 9.2.1.52		_	
>Cell GAI >UTRAN Access Point	0		9.2.1.5A		_	
Position	_		9.2.1.70A		_	
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	_	
>Cell Parameter ID	0		9.2.1.8	L' J		
>Sync Case	0		9.2.1.54		_	
>SCH Time Slot	C-Case2		9.2.1.51			
>SCTD Indicator	0		9.2.1.78			
>PCCPCH Power	M		9.2.1.43			
> Timing Advance Applied	M		9.2.1.43 9.2.3.12A		_	
>Timing Advance Applied						
>Alpha Value >UL PhysCH SF Variation	M		9.2.3.a 9.2.3.13B			
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		-	
>UL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot	М	1	9.2.3.13C		—	
Information						
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
22001101110	171		J.Z.J.Z		—	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Secondition		Cintoanty
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		-	
>>>DL Timeslot	М		9.2.3.2C			
Information						
>>CCTrCH Maximum DL	0		DL Power	Maximum	YES	ignore
TX Power			9.2.1.21A	allowed power on DPCH		
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore
>DCH Information Response	0		9.2.1.16A	2. 0	YES	ignore
>DSCH Information		0			GLOBAL	ignore
Response		<maxnoof DSCHs&gt;</maxnoof 				ignore
>>DSCH ID	М		9.2.3.3ae		_	
>>DSCH Flow Control	М		9.2.3.3ag		_	
Information						
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format	М		9.2.3.13		-	
Management						-
>USCH Information Response		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	Μ		9.2.3.14		-	
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	Μ		9.2.3.13		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Time Slot for SCH	C-Case1		Time Slot 9.2.1.56		YES	ignore
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		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		9.2.1.49		-	
>URA Information	М		9.2.1.70B		_	
>SAI	М		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	M		9.2.3.13H		_	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	Μ		Uplink SIR		-	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Criticality
			9.2.1.69			
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Cell Parameter ID	0		9.2.1.8		-	
>SCTD Indicator	0		9.2.1.78		_	
>PCCPCH Power	Μ		9.2.1.43		_	
>Alpha Value	Μ		9.2.3.a		_	
>UL PhysCH SF Variation	Μ		9.2.3.13B		_	
>Synchronisation Configuration	Μ		9.2.3.7E		_	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		_	
>UL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		-	
>>UL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		-	
>>>Repetition Length	Μ		9.2.3.6		-	
>>>TDD DPCH Offset	Μ		9.2.3.8A		—	
>>>UL Timeslot Information LCR	М		9.2.3.13G		_	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		YES	ignore
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>DL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>>TSTD Indicator	Μ		9.2.3.13E		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response LCR		0 <maxnoof DSCHsLC R&gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.3.3ae		-	
>>DSCH Flow Control Information	M		9.2.3.3ag		-	
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	M		9.2.3.13		_	
>USCH Information Response LCR		0 <maxnoof USCHsLC R&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer	0		9.2.1.62		-	1
Address	1	1			1	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	_		
>>Transport Format Management	Μ		9.2.3.13		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>Uplink Timing Advance Control LCR	М		9.2.3.13K		YES	ignore
>PowerControl GAP	0		INTEGER (1255)	Unit: umber of subframes Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH-RNTI	0		9.2.3.3ah		YES	ignore
Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		-	
>Transmission Mode	0		9.2.1.81		_	
>Preferred Frequency Layer	0		UARFCN 9.2.1.66		-	
RL Information Response 7.68Mcps				Mandatory for 7.68Mcps TDD , not applicable to 1.28Mcps TDD or 3.84Mcps TDD		ignore
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>UL Time Slot ISCP Info	М		9.2.3.13D		-	
>Maximum Uplink SIR	Μ		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	Μ		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Cell Parameter ID	0		9.2.1.8		_	
>Sync Case	0		9.2.1.54		_	
>SCH Time Slot	C-Case2		9.2.1.51		_	
>SCTD Indicator	0		9.2.1.78		_	
>PCCPCH Power	М		9.2.1.43		_	
>Timing Advance Applied	М		9.2.3.12A		_	
>Alpha Value	Μ		9.2.3.a		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info 7.68Mcps TDD	0		9.2.3.22		_	
>UL CCTrCH Information 7.68 Mcps		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID >>UL DPCH Information	М	01	9.2.3.2		– YES	ignoro
>>>Repetition Period	М	01	9.2.3.7			ignore
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.0 9.2.3.8A		-	
>>>UL Timeslot Information 7.68Mcps	M		9.2.3.26 9.2.3.26		_	
>>Uplink SIR Target CCTrCH	0		Uplink SIR 9.2.1.69		_	
>DL CCTrCH Information 7.68 Mcps		0 <maxno ofCCTrCH s&gt;</maxno 	0.2.1.00	For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>DL DPCH Information		01	0.2.0.2		YES	ignore
>>>Repetition Period	Μ	01	9.2.3.7		-	ignore
>>>Repetition Length	M		9.2.3.6		_	
>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information 7.68Mcps	M		9.2.3.28		_	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	-	
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	-	
>DCH Information Response	0		9.2.1.16A	2. 0	YES	ignore
>DSCH Information Response 7.68 Mcps		0 <maxnoof DSCHs&gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.3.3ae		_	
>>DSCH Flow Control Information	М		9.2.3.3ag		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		-	
>>Transport Format Management	М		9.2.3.13		_	
>USCH Information Response 7.68 Mcps		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		_	
>HCS Prio	0		9.2.1.30N		_	
>Time Slot for SCH	C-Case1		Time Slot 9.2.1.56		_	
E-DCH Information Response	0		E-DCH	3.84Mcps	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			TDD Information Response 9.2.3.41	TDD only		
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	1.28Mcps TDD only	YES	ignore

Condition Explanation	
Case2	The IE shall be present if Sync Case IE is equal to "Case2".
Case1	This IE shall be present if Sync Case IE is equal to "Case1".

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
maxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
maxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

# 9.1.5 RADIO LINK SETUP FAILURE

# 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	Μ				YES	ignore
>General					-	
>>Cause	Μ		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>>Max UE DTX Cycle	C-DTX- CycleNotA vailable		9.2.2.87		YES	ignore
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				5
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	M	1	9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	M		9.2.1.52			
>>>Cell GAI	0		9.2.1.52 9.2.1.5A			
>>>UTRAN Access Point	0		9.2.1.5A 9.2.1.70A		_	
Position					_	
>>>Received Total Wide Band Power	М		9.2.2.35A		_	
>>>Not Used	0		NULL		_	
>>>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>>>CHOICE Diversity Indication	М				-	
>>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>Non Combining or First RL					-	
>>>>DCH Information Response	М		9.2.1.16A		-	
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	М		9.2.2.43		-	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>>>Maximum Allowed UL Tx Power	Μ		9.2.1.35		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	-		-
>>>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>>>Primary CPICH Power	М		9.2.1.44		_	
>>>Primary Scrambling Code	0		9.2.1.45		-	
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	-	
>>>Not Used	0		NULL	L-J	_	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>>>PC Preamble	М		9.2.2.27a		-	
>>>SRB Delay	Μ		9.2.2.39A		_	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>>>>TMGI	М		9.2.1.80		-	
>>>>Transmission Mode	0		9.2.1.81		Ι	
>>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		-	
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9A		YES	ignore
>>HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
>>Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	ignore
>SixtyfourQAM DL Support Indicator	0		9.2.2.79		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
DTX-CycleNotAvailable	The IE shall be present if the Cause IE is set to Continuous Packet
	Connectivity UE DTX Cycle not Available ".

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

# 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		-	
>RL Specific					_	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		-	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.6 RADIO LINK ADDITION REQUEST

# 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	reject
RL Information		1 <maxn oofRLs- 1&gt;</maxn 			EACH	notify
>RL ID	М		9.2.1.49		_	
>C-ID	М		9.2.1.6		_	
>Frame Offset	М		9.2.1.30		-	
>Chip Offset	М		9.2.2.1		_	
>Diversity Control Field	М		9.2.1.20		-	
>Primary CPICH Ec/No	0		9.2.2.32		-	
>Not Used	0		NULL		-	
>Transmit Diversity Indicator	0		9.2.2.48	_	_	
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH or on F-DPCH	YES	ignore
>Enhanced Primary CPICH Ec/No	0		9.2.2.131		YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		YES	reject
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
>Synchronisation Indicator	0		9.2.2.45A		YES	ignore
Active Pattern Sequence Information	0		9.2.2A 9.2.2.12A	Either all the already active Transmissio n Gap Sequence(s) are addressed (Transmissio n Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject
Permanent NAS UE Identity	0	+	9.2.2.12A 9.2.1.73		YES	ignore
Serving E-DCH RL	0		9.2.1.73 9.2.2.38C		YES	reject
Initial DL DPCH Timing Adjustment Allowed	0		9.2.2.38C		YES	ignore
HS-DSCH Serving Cell Change Information	0		9.2.2.19f		YES	reject
Serving Cell Change CFN	0		CFN 9.2.1.9		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E-	М	1	9.2.2.24e	1	-	

DPDCHs					
>Puncture Limit	М	9.2.1.4	6	-	
>E-TFCS Information	М	9.2.2.4	3	-	
>E-TTI	М	9.2.2.4	J	-	
>E-DPCCH Power Offset	М	9.2.2.4	<	_	
>E-RGCH 2-Index-Step	М	9.2.2.6	1	-	
Threshold					
>E-RGCH 3-Index-Step	М	9.2.2.6	5	-	
Threshold					
>HARQ Info for E-DCH	М	9.2.2.6	6	-	
>HS-DSCH Configured	М	9.2.2.1	PC	YES	reject
Indicator					
E-DCH FDD Information	C-	9.2.2.4	3	YES	reject
	EDCHInfo				

Condition	Explanation					
EDCHInfo	This IE shall be present if E-DPCH Information IE is present.					

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE.		

# 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		—	
RL Information		1			YES	reject
>RL ID	М		9.2.1.49		-	
>C-ID	Μ		9.2.1.6		-	
>Frame Offset	M		9.2.1.30		_	
>Diversity Control Field	М		9.2.1.20		-	
>Primary CCPCH RSCP	0		9.2.3.5		_	-
>DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	_	
>DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	reject
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>Delayed Activation	0		9.2.1.19Aa		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	M		9.2.3.13J			
Synchronisation Step Size			9.2.0.100			
>>Uplink Synchronisation Frequency	М		9.2.3.131		-	
> Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
UL CCTrCH Information		0< maxno ofCCTr CHs >			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	-	
DL CCTrCH Information		0< maxno ofCCTr CHs >			EACH	notify
>CCTrCH ID	Μ		9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10			
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	М		9.2.3.36		_	
>E-TFCS Information TDD	Μ		9.2.3.37		—	
>E-DCH MAC-d Flows	М		9.2.3.38		_	

Information TDD						
>E-DCH TDD Information	Μ		9.2.3.40		-	
E-DCH Serving RL	0		9.2.1.49	3.84Mcps TDD only	YES	reject
E-DCH Information		01		7.68Mcps	YES	reject
7.68Mcps				TDD only		
>E-PUCH Information	Μ		9.2.3.36		-	
>E-TFCS Information TDD	М		9.2.3.37		-	
>E-DCH MAC-d Flows Information TDD	М		9.2.3.38		_	
>E-DCH TDD Information	М		9.2.3.51		-	
7.68Mcps						
E-DCH Information		01		1.28Mcps	YES	reject
1.28Mcps				TDD only		
>E-PUCH Information LCR	М		9.2.3.36a		-	
>E-TFCS Information TDD	М		9.2.3.37		-	
>E-DCH MAC-d Flows	Μ		9.2.3.38		-	
Information TDD						
>E-DCH TDD Information LCR	М		9.2.3.40a		-	

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCH for one UE.

# 9.1.7 RADIO LINK ADDITION RESPONSE

# 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
RL Information Response		1 <maxnoof RLs-1&gt;</maxnoof 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>RL Set ID	М		9.2.2.35		-	
>URA Information	0		9.2.1.70B		-	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>Received Total Wide Band Power	М		9.2.2.35A		-	
>Not Used	0		NULL		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		YES	ignore
>CHOICE Diversity Indication	М				_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>Non Combining					-	
>>>DCH Information Response	М		9.2.1.16A		-	
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>SSDT Support Indicator	М		9.2.2.43		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		9.2.2.39A		_	
>Primary CPICH Power	М		9.2.1.44			
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Active MBMS Bearer		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Service List		ActiveMBM S>				
>>TMGI	Μ		9.2.1.80		_	
>>Transmission Mode	0		9.2.1.81		_	
>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.19g		YES	ignore
E-DCH Serving Cell Change Information Response	0		9.2.2.19h		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

Explanation
Maximum number of radio links for one UE.
Maximum number of MBMS bearer services that are active in parallel.

# 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Maaaaga Turaa	Μ		Reference		YES	raiaat
Message Type Transaction ID	M		9.2.1.40 9.2.1.59		TES	reject
RL Information Response		01		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD	YES	ignore
>RL ID	M		9.2.1.49		-	
>URA Information	0		9.2.1.70B		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info	М		9.2.3.13D		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>PCCPCH Power	M		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A			
>Alpha Value	M		9.2.3.a			
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	M		9.2.3.7E		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B		-	
>UL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						5
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>>UL Timeslot Information	М		9.2.3.13C		-	
>DL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		-	
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	M		9.2.3.2C		-	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>>CCTrCH Minimum DL	0	ł	DL Power	Minimum	YES	ignore
TX Power			9.2.1.21A	allowed		1911010

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			Reference	power on		
>DCH Information		01		DPCH	_	
>>CHOICE Diversity Indication	М	01			_	
>>>Combining					-	
>>>RL ID	М		9.2.1.49	Reference RL	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>Non Combining						
>>>>DCH Information Response	M		9.2.1.16A		-	
>DSCH Information Response		0 <maxnoof DSCHs&gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.3.3ae		_	
>>Transport Format Management	М		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.3.3ag		_	
>>CHOICE Diversity Indication	0				-	
>>Non Combining					_	
>>>>Binding ID	0	1	9.2.1.3		_	
>>>>Transport Layer Address	0		9.2.1.62		_	
>USCH Information Response		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	М		9.2.3.13		-	
>>CHOICE Diversity Indication	0				-	
>>>Non Combining					_	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport	0		9.2.1.62		_	
Layer Address						
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
Criticality Diagnostics	0		9.2.1.13		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		9.2.1.49		-	ļ
>URA Information	M		9.2.1.70B		-	
>SAI	M		9.2.1.52		—	
>Cell GAI >UTRAN Access Point	0		9.2.1.5A 9.2.1.70A		-	
Position >UL Time Slot ISCP Info	M		9.2.3.13H			

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	•		-
LCR						
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	М		Uplink SIR		_	
>PCCPCH Power	M		9.2.1.69 9.2.1.43			
>Maximum Allowed UL Tx	M		9.2.1.43		—	
Power					_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Alpha Value	М		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B			
>Synchronisation	M		9.2.3.13D 9.2.3.7E		_	
Configuration					_	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		_	
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC</maxnoof 		For DCH	GLOBAL	ignore
	M	<i>R</i> >	9.2.3.2			
>>CCTrCH ID >>UL DPCH	IVI	01	9.2.3.2		– YES	:
Information LCR		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>UL Timeslot Information LCR	М		9.2.3.13G		-	
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
LCR		CCTrCHsLC R>			0200,12	ignoro
>>CCTrCH ID	М	112	9.2.3.2		_	
>>DL DPCH	171	01	3.2.3.2		YES	ignore
Information LCR		01			1113	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot	М		9.2.3.2E		_	
Information LCR	N.4		0.0.0.405			
>>>TSTD Indicator	M		9.2.3.13E		—	
>DCH Information	М		9.2.1.16A		-	
Response >DSCH Information		0			GLOBAL	inners
Response LCR		0 <maxnoof DSCHsLCR &gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.3.3ae		_	1
>>DSCH Flow Control Information	M		9.2.3.3ag		-	
>>Binding ID	0	+	9.2.1.3			
>>Dinding ID >>Transport Layer	0	+	9.2.1.3		-	
Address	_				_	
>>Transport Format Management	М		9.2.3.13		_	
>USCH Information Response LCR		0 <maxnoof USCHsLCR &gt;</maxnoof 			GLOBAL	ignore
	N.4	1	9.2.3.14		_	
>>USCH ID	IVI					1
>>USCH ID >>Transport Format Management	M M		9.2.3.13		-	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	•		-
>>>Non Combining					Ι	
>>>>Binding ID	0		9.2.1.3		Ι	
>>>>Transport Layer Address	0		9.2.1.62		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignoro
>Uplink Timing Advance	M		9.2.3.13K		YES	ignore ignore
Control LCR						-
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only. Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt	YES	ignore
>PowerControl GAP	0		INTEGER (1255)	Unit: umber of subframes Applicable to 1.28Mcps TDD only	YES	ignore
RL Information Response 7.68Mcps		01		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD	YES	ignore
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>UL Time Slot ISCP Info	М		9.2.3.13D			
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Allowed UL Tx Power	M		9.2.1.35		_	
>Maximum DL TX Power	M		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	M		DL Power			
	M		9.2.1.21A			
>PCCPCH Power	M		9.2.1.43		_	
>Timing Advance Applied	M		9.2.3.12A		_	
>Alpha Value	M		9.2.3.a		_	
>UL PhysCH SF Variation	M		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info 7.68Mcps TDD	0		9.2.3.22		-	
>UL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
7.68 Mcps		CCTrCHs>				
>>CCTrCH ID >>UL DPCH	М	0.1	9.2.3.2		-	
>>OL DPCH Information 7.68 Mcps		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.7			
>>>TDD DPCH Offset	M		9.2.3.8A			
>>>UL Timeslot	M		9.2.3.26		_	
Information 7.68Mcps			0.2.0.20			
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
7.68 Mcps		CCTrCHs>				5
>>CCTrCH ID	М		9.2.3.2		-	
>>DL DPCH		01			YES	ignore
Information 7.68 Mcps						
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		-	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>DL Timeslot	М		9.2.3.28		-	
Information 7.68Mcps >>CCTrCH Maximum DL		+		Maxim		
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed	_	
TX Power			9.2.1.21A	power on DPCH		
>>CCTrCH Minimum DL	0		DL Power	Minimum	_	
TX Power			9.2.1.21A	allowed		
				power on		
				DPCH		
>DCH Information		01			-	
>>CHOICE Diversity	М				-	
Indication						
>>>Combining			0.0.1.40	Deference	-	
>>>RL ID	M		9.2.1.49	Reference RL	-	
>>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>>>Non Combining						
>>>DCH	Μ		9.2.1.16A		_	
Information Response			0.2.1110/			
>DSCH Information		0			GLOBAL	ignore
Response 7.68 Mcps		<maxnoof< td=""><td></td><td></td><td></td><td>-</td></maxnoof<>				-
		DSCHs>				
>>DSCH ID	M		9.2.3.3ae		-	
>>Transport Format	М		9.2.3.13		-	
Management >>DSCH Flow Control	N4		0.0.0.0			
Information	M		9.2.3.3ag		-	
>>CHOICE Diversity Indication					-	
>>>Non Combining					_	
>>>Binding ID	0		9.2.1.3		_	
>>>>Transport	0	1	9.2.1.62		_	
Layer Address	-		0.2.1102			
>USCH Information		0			GLOBAL	ignore
Response 7.68 Mcps		<maxnoof USCHs&gt;</maxnoof 				
>>USCH ID	М		9.2.3.14		_	
>>Transport Format	М		9.2.3.13			
Management						
>>CHOICE Diversity Indication	0				-	
>>>Non Combining					-	
>>>>Binding ID	0		9.2.1.3		—	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Transport Layer Address	0		9.2.1.62		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		_	
>Cell GA Additional Shapes	0		9.2.1.5B		-	
>HCS Prio	0		9.2.1.30N		_	
Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S&gt;</maxnoof 			GLOBAL	ignore
>TMGI	М		9.2.1.80		_	
>Transmission Mode	0		9.2.1.81		_	
>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.41	3.84Mcps TDD only	YES	ignore
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	1.28Mcps TDD only	YES	ignore

Explanation
Maximum number of DSCHs for one UE for 3.84Mcps TDD.
Maximum number of USCHs for one UE for 3.84Mcps TDD.
Maximum number of CCTrCHs for one UE for 3.84Mcps TDD.
Maximum number of DSCHs for one UE for 1.28Mcps TDD.
Maximum number of USCHs for one UE for 1.28Mcps TDD.
Maximum number of CCTrCH for one UE for 1.28Mcps TDD.
Maximum number of MBMS bearer services that are active in parallel.

# 9.1.8 RADIO LINK ADDITION FAILURE

#### 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL Information Response		1 <maxnoof RLs-1&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Cause	М		9.2.1.5		—	
>>Successful RL Information Response		0 <maxnoof RLs-2&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>RL Set ID	М		9.2.2.35		-	
>>>URA Information	0		9.2.1.70B		-	
>>>SAI	М		9.2.1.52		-	
>>>Cell GAI	0		9.2.1.5A		—	
>>>UTRAN Access Point Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		_	
>>Not Used	0		NULL		_	
>>>DL Code	M		FDD DL		YES	ignore
Information			Code Information 9.2.2.14A			ignore
>>>CHOICE Diversity Indication	М				_	
>>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	_	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>Non Combining					-	
>>>>DCH Information Response	M		9.2.1.16A		_	
>>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>>>SSDT Support Indicator	М		9.2.2.43		_	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>>>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>>>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>>>Primary CPICH Power	М		9.2.1.44		_	
>>>PC Preamble	Μ		9.2.2.27a		_	
>>>SRB Delay	М		9.2.2.39A		_	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S&gt;</maxnoof 			GLOBAL	ignore
>>>>TMGI	Μ		9.2.1.80		-	
>>>>Transmission Mode	0		9.2.1.81		-	
>>>Preferred Frequency Layer	0		UARFCN 9.2.1.66		_	
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH Serving Cell Change Information Response	0		9.2.2.19g		YES	Ignore
E-DCH Serving Cell Change Information Response	0		9.2.2.19h		YES	Ignore

Range bound	Explanation				
maxnoofRLs	Maximum number of radio links for one UE.				
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.				

# 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.9 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	notify
>RL ID	М		9.2.1.49		_	

	Range bound	Explanation		
ma	xnoofRLs	Maximum number of radio links for one UE		

#### 9.1.10 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.11 RADIO LINK RECONFIGURATION PREPARE

#### 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<b>Reference</b> 9.2.1.40		YES	rojoct
Transaction ID	M		9.2.1.40		TES	reject
Allowed Queuing Time	0		9.2.1.39		YES	reject
UL DPCH Information	0	01	5.2.1.2		YES	reject
>UL Scrambling Code	0	01	9.2.2.53		-	10,000
>UL SIR Target	0		Uplink SIR		_	
	_		9.2.1.69			
>Min UL Channelisation Code Length	0		9.2.2.25		Ι	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		_	
>Puncture Limit	0		9.2.1.46	For the UL.	_	
>TFCS	0		9.2.1.63	TFCS for the UL.	_	
>UL DPCCH Slot Format	0		9.2.2.52	02.	_	
>Diversity Mode	0	1	9.2.2.8		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		_	
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.52A		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	0	01	9.2.1.63	TFCS for the DL.	-	Teject
>DL DPCH Slot Format	0		9.2.2.9	DL.	_	
>Number of DL	0		9.2.2.26A		_	
Channelisation Codes >TFCI Signalling Mode	0		9.2.2.46		_	
>TFCI Presence	C-		9.2.2.40		—	
	SlotFormat				-	
>Multiplexing Position	0		9.2.2.26		_	
>Limited Power Increase	0		9.2.2.21A		_	
>DL DPCH Power Information		01			YES	reject
>>Power Offset Information		1			_	
>>>PO1	М		Power Offset 9.2.2.30	Power offset for the TFCI bits	_	
>>>PO2	М		Power Offset 9.2.2.30	Power offset for the TPC bits	-	
>>>PO3	М		Power Offset 9.2.2.30	Power offset for the pilot bits	-	
>>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>>Inner Loop DL PC Status	М		9.2.2.21a		_	
DCHs To Modify	0		FDD DCHs To Modify 9.2.2.13C		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs To Delete		0 <maxnoof DCHs&gt;</maxnoof 			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
>DCH ID	M		<b>Reference</b> 9.2.1.16			
RL Information		0 <maxnoof RLs&gt;</maxnoof 	9.2.1.10		EACH	reject
>RL ID	М		9.2.1.49		_	
>Not Used	0		NULL		_	
>Not Used	0		NULL		-	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
>DL Reference Power	0		DL Power 9.2.1.21A	Power on DPCH	YES	ignore
>RL Specific DCH Information	0		9.2.1.49A		YES	ignore
>DL DPCH Timing Adjustment	0		9.2.2.9A	Required RL Timing Adjustment	YES	reject
>Phase Reference Update Indicator	0		9.2.2.27B		YES	ignore
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	0		9.2.2.24e		_	
>Puncture Limit	0		9.2.1.46		-	
>E-TFCS Information	0		9.2.2.4G		_	
>E-TTI	0		9.2.2.4J		_	
>E-DPCCH Power Offset	0		9.2.2.4K		_	
>E-RGCH 2-Index-Step Threshold	0		9.2.2.64		_	
>E-RGCH 3-Index-Step Threshold	0		9.2.2.65		_	
>HARQ Info for E-DCH	0		9.2.2.66			
>HS-DSCH Configured Indicator	0		9.2.2.19C		_	
E-DCH FDD Information	0		9.2.2.4B		YES	reject
E-DCH FDD Information to Modify	0		9.2.2.4F		YES	reject
E-DCH MAC-d Flows to Add	0		E-DCH MAC-d flows Information 9.2.2.4MC		YES	reject
E-DCH MAC-d Flows to Delete	0		9.2.1.90		YES	reject
Serving E-DCH RL	0		9.2.2.38C		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
F-DPCH Information		01			YES	reject
>Power Offset Information		1			_	
>>PO2	М		Power Offset 9.2.2.30	This IE shall be ignored by DRNS.	_	
>FDD TPC Downlink Step Size	М		9.2.2.16		-	
>Limited Power Increase	Μ		9.2.2.21A		_	
>Inner Loop DL PC Status	Μ		9.2.2.21a		_	
>F-DPCH Slot Format Support Request	0		9.2.2.86		YES	reject
>F-DPCH Slot Format	0		9.2.2.85		YES	Ignore
Fast Reconfiguration Mode	0		9.2.2.70		YES	ignore
CPC Information		01			YES	reject
>Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72		-	
>Continuous Packet Connectivity DTX-DRX Information To Modify	0		9.2.2.73		_	
>Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		_	
>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator	0		9.2.2.75A		YES	reject

Condition	Explanation
CodeLen	The IE shall be present only if the Min UL
	Channelisation Code length IE equals to 4.
SlotFormat	The IE shall only 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 <i>Diversity Mode</i> IE is present
	in the UL DPCH Information IE and is not equal to
	"none".

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofRLs	Maximum number of RLs for a UE.

# 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
<u> </u>			Reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	nois of
Allowed Queuing Time UL CCTrCH To Add	0	0	9.2.1.2	For DCH and	YES EACH	reject notify
		0 <maxno ofCCTrCH s&gt;</maxno 		USCH	ЕАСП	notity
>CCTrCH ID	Μ		9.2.3.2		_	
>TFCS	Μ		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	Μ		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Mandatory for 1.28Mcps TDD; not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	reject
UL CCTrCH To Modify		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63	For the UL.	_	
>TFCI Coding	0		9.2.3.11		_	
>Puncture Limit	0		9.2.1.46		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
>TDD TPC Uplink Step Size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH to Delete		0 <maxno ofCCTrCH s&gt;</maxno 		,	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DL CCTrCH To Add		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the DL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>TPC CCTrCH List		0 <maxno CCTrCHs&gt;</maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
>TDD TPC Downlink Step Size	0	0	9.2.3.10		YES	reject
DL CCTrCH To Modify		0 <maxno ofCCTrCH</maxno 			EACH	notify

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
		S>				
>CCTrCH ID	М		9.2.3.2		-	
>TFCS	0		9.2.1.63	For the DL.	_	
>TFCI Coding	0		9.2.3.11		_	
>Puncture Limit	0		9.2.1.46		_	
>TPC CCTrCH List		0 <maxno CCTrCHs&gt;</maxno 		List of uplink CCTrCH which provide TPC	_	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
>TDD TPC Downlink Step Size	0		9.2.3.10		YES	reject
DL CCTrCH to Delete		0 <maxno ofCCTrCH s&gt;</maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DCHs To Modify	0		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	Μ		9.2.1.16		_	
DSCHs To Modify		0 <maxno ofDSCHs&gt;</maxno 			GLOBAL	reject
>DSCH ID	М		9.2.3.3ae		-	
>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64		-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		_	
>BLER	0		9.2.1.4		Ι	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>Traffic Class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
	-		Reference			-
DSCHs To Add	0		DSCH TDD Information 9.2.3.3a		YES	reject
DSCHs to Delete		0 <maxno ofDSCHs&gt;</maxno 	0.2.0.04		GLOBAL	reject
>DSCH ID	М		9.2.3.3ae		_	
USCHs To Modify		0 <maxno ofUSCHs&gt;</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		-	
>CCTrCH ID	0		9.2.3.2	<u>U</u> L CCTrCH in which the USCH is mapped.	-	
>TrCH Source Statistics Descriptor	0		9.2.1.65		_	
>Transport Format Set	0		9.2.1.64		-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		_	
>BLER	0		9.2.1.4		-	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>RB Info		0 <maxno ofRB&gt;</maxno 		All Radio Bearers using this USCH	-	
>>RB Identity	М		9.2.3.5B		-	
>Traffic class	0		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCHs To Add	0		USCH Information 9.2.3.15		YES	reject
USCHs to Delete		0 <maxno ofUSCHs&gt;</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		_	
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
DL Time Slot ISCP Info	0		9.2.3.2D	Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Applicable to 1.28Mcps TDD only	YES	ignore
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-DSCH Information To Modify	0		9.2.1.30Q		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
PDSCH-RL-ID	0		RL ID 9.2.1.49		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		9.2.3.13J		_	
>Uplink Synchronisation Frequency	М		9.2.3.131		-	
RL Information		0 <maxno ofRLs.</maxno 			YES	ignore
>RL ID	М	-	9.2.1.49		_	
>RL Specific DCH Information	0		9.2.1.49A		_	
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore
E-DCH Information		01		3.84Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.36		-	
>E-TFCS Information TDD	0		9.2.3.37		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		-	
>E-DCH TDD Information	0		9.2.3.40		_	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	
E-DCH Serving RL	0		9.2.1.49	3.84Mcps TDD only	YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Information		01	Reference	7 COMono	YES	raiaat
7.68Mcps		01		7.68Mcps TDD only	TES	reject
>E-PUCH Information	0		9.2.3.36	TDD only		
>E-TFCS Information TDD	0		9.2.3.30		_	
4	-					
>E-DCH MAC-d Flows to Add	0		9.2.3.38		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		-	
>E-DCH TDD Information 7.68Mcps	0		9.2.3.51		_	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	
E-DCH Information		01		1.28Mcps	YES	reject
1.28Mcps	0		0.0.00	TDD only		
>E-PUCH Information LCR	0		9.2.3.36a		_	
>E-TFCS Information TDD	0		9.2.3.37		-	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		-	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information LCR	0		9.2.3.40a		_	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for a UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

#### 9.1.12 RADIO LINK RECONFIGURATION READY

#### 9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference		N/50	
Message Type	M		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		_	
>Not Used	0		NULL		_	
>DL Code Information	0		FDD DL Code Information		YES	ignore
			9.2.2.14A			
>DCH Information Response	0		9.2.1.16A		YES	ignore
>Not Used	0		NULL		_	
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>Secondary CPICH Information Change	0		9.2.2.38B		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
Criticality Diagnostics	0	1	9.2.1.13		YES	ignore
HS-DSCH-RNTI	0	T	9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0	T	9.2.1.34B		YES	ignore
Fast Reconfiguration Permission	0		9.2.2.71	FDD only	YES	ignore
Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	ignore

Range bound	Explanation			
maxnoofRLs	Maximum number of RLs for a UE.			

# 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
RL Information Response		0 <maxnoof RLs&gt;</maxnoof 	0.211100	See Note 1 below	YES	ignore
>RL ID	М	11207	9.2.1.49	bolon	_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		_	
>Secondary CCPCH Info TDD	0		9.2.3.7B	Applicable to 3.84Mcps TDD only	-	
>UL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2			
>>UL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		-	
>>> Rx Timing Deviation	0		9.2.3.7A		_	
>>>UL Timeslot Information	М		9.2.3.13C		_	
>>> Rx Timing Deviation 3.84 Mcps Extended	0		9.2.3.35		YES	Ignore
>>UL DPCH to be Modified		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		Ι	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		-	
>>>UL Timeslot Information		0 <maxnoo fTS&gt;</maxnoo 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	Μ		9.2.1.56		-	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		-	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>UL Code Information		0 <maxno0 fDPCHs&gt;</maxno0 			-	
>>>>DPCH ID	М		9.2.3.3		-	
>>>>>TDD Channelisation Code	0		9.2.3.8		-	
>>>UL Timeslot Information LCR		0 <maxnoo fTSLCR&gt;</maxnoo 		Applicable to 1.28Mcps TDD only	GLOBAL	ignore
>>>>Time Slot LCR	М		9.2.3.12a		-	
>>>>Midamble	0		9.2.3.4C		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
01.161.05			Reference			
Shift LCR	0		0.04.55			
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>UL Code Information LCR		0 <maxnoo fDPCHLCR&gt;</maxnoo 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		-	
>>>>>TDD Channelisation Code LCR	0		9.2.3.8a		-	
>>>>> TDD UL DPCH Time Slot Format LCR	0		9.2.3.10C		YES	reject
>>>UL Timeslot Information 7.68Mcps		0 <maxnoo fTS&gt;</maxnoo 		Applicable to 7.68Mcps TDD only	GLOBAL	ignore
>>>>Time Slot	М		9.2.1.56		-	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information 7.68Mcps		0 <maxno0 fDPCHs768 &gt;</maxno0 			GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3		_	
>>>>>TDD Channelisation Code 7.68Mcps	0		9.2.3.25		-	
>>UL DPCH to be Deleted		0 <maxnoof DPCHs&gt;</maxnoof 			GLOBAL	ignore
>>>DPCH ID	М		9.2.3.3		_	
>>UL DPCH to be Added LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot Information LCR	М		9.2.3.13G		-	
>>UL DPCH to be Added 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>> Rx Timing Deviation 7.68Mcps	0		9.2.3.30		_	
>>>UL Timeslot Information 7.68Mcps	М		9.2.3.26		_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH to be Added		01		Applicable to 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6			
>>>TDD DPCH Offset	М		9.2.3.8A		_	

	3.6 3.8A App 3.84 TDI 1.56 3.4 1.55	olicable to 4Mcps D only	- YES - - - - - -	ignore
9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.:	3.6 3.8A App 3.84 TDI 1.56 3.4 1.55	4Mcps		ignore
9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.:	3.6 3.8A App 3.84 TDI 1.56 3.4 1.55	4Mcps		
9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.: 9.2.:	3.6 3.8A App 3.84 TDI 1.56 3.4 1.55	4Mcps		
9.2.3 xnoO 9.2.3 9.2.3 9.2.3 9.2.3 xnoO /s> 9.2.3 9.2.3 9.2.3	3.8A App 3.84 TDI 1.56 3.4 1.55	4Mcps	- - -	
xnoO 9.2. 9.2. 9.2. xnoO ls> 9.2. 9.2.	App 3.84 TDI 1.56 3.4 1.55	4Mcps	- - -	
9.2.3 9.2.7 xnoO ls> 9.2.3 9.2.3	3.4			
9.2.* xnoO ls> 9.2.* 9.2.*	1.55		_	
xnoO /s> 9.2.3 9.2.3				
<u>9.2.3</u> 9.2.3	3.3		-	
9.2.3	3.3		_	
9.2.3	3.3			
9.2.3			_	
xnoO			-	
R>	1.28 TDI	olicable to 8Mcps D only	GLOBAL	ignore
9.2.3	3.12a		-	
9.2.3	3.4C		-	
9.2.1	1.55		-	
xnoO			GLOBAL	ignore
ILCR>				-
9.2.3	3.3		_	
9.2.3	3.8a		-	
9.2.3	3.8E		YES	reject
9.2.7	1.21A allo pow DP0		YES	ignore
	1.21A allo	nimum owed ver on CH	YES	ignore
oxnoO	7.68 TDI	olicable to 8Mcps D only	GLOBAL	ignore
9.2.1			-	
9.2.3			-	
9.2.1	1.55		_	
xnoO Is768			-	
			-	
9.2.3	3.25		_	
			GLOBAL	ignore
		\$>	9.2.3.25 xnoof	9.2.3.25 – xnoof >> GLOBAL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>DL DPCH to be Deleted 7.68Mcps TDD		0 <maxnoof DPCHs768&gt;</maxnoof 			GLOBAL	ignore
>>>DPCH ID 7.68Mcps >>DL DPCH to be Added LCR	М	01	9.2.3.34	Applicable to 1.28Mcps TDD only	– YES	ignore
>>>Repetition Period	М		9.2.3.7	•	_	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>DL DPCH to be Added 7.68Mcps		01		Applicable to 7.68Mcps TDD only	YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>DL Timeslot Information 7.68Mcps	М		9.2.3.28		—	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>DCH Information	0		9.2.1.16A		YES	ignore
>DSCH to be Added or Modified		0 <maxnoof DSCHs&gt;</maxnoof 			GLOBAL	ignore
>>DSCH ID	М	1	9.2.3.3ae		_	
>>Transport Format Management	М		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.3.3ag		-	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		-	
>USCH to be Added or Modified		0 <maxnoof USCHs&gt;</maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format Management	М		9.2.3.13		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		-	
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
>Secondary CCPCH Info	0	1	9.2.3.7F	Applicable to	YES	ignore

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD LCR				1.28Mcps TDD only		
>Secondary CCPCH Info 7.68Mcps TDD	0		9.2.3.22	Applicable to 7.68Mcps TDD only	YES	ignore
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only. Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt (3GPP TS 25.105)	YES	ignore
Criticality Diagnostics	0		9.2.1.13	,	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore
DSCH-RNTI	0		9.2.3.3ah		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.41	3.84Mcps TDD only	YES	ignore
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	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.

Range bound	Explanation
maxnoofDSCHs	Maximum number of DSCHs for one UE.
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD or 7.68Mcps TDD.
maxnoofDPCHs	Maximum number of DPCH for a UE for 3.84Mcps TDD.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofDPCHLCRs	Maximum number of DPCH for a UE for 1.28Mcps TDD.
maxnoofRLs	Maximum number of RLs for one UE
maxnoofDPCHs768	Maximum number of DPCH for a UE for 7.68Mcps TDD.

#### 9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
CFN	Μ		9.2.1.9		YES	ignore
Active Pattern Sequence Information	0		9.2.2.A	FDD only	YES	ignore
Fast Reconfiguration Mode	0		9.2.2.70	FDD only	YES	reject

#### 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
CHOICE Cause Level	М				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		-	
>RL Specific					_	
>>RLs Causing Reconfiguration Failure		0 <maxnoof RLs&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>>Max UE DTX Cycle	C-DTX- CycleNotA vailable		9.2.2.87		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
DTX-CycleNotAvailable	The IE shall be present if the Cause IE is set to "Continuous Packet
	Connectivity UE DTX Cycle not Available ".

Range bound	Explanation		
maxnoofRLs	Maximum number of RLs for a UE.		

# 9.1.15 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	

# 9.1.16 RADIO LINK RECONFIGURATION REQUEST

#### 9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the UL.	_	
>UL DPDCH Indicator For E-DCH Operation	0		9.2.2.52A		YES	reject
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	-	
>TFCI Signalling Mode	0		9.2.2.46		_	
>Limited Power Increase	0		9.2.2.21A		_	
DCHs To Modify	0		FDD DCHs To Modify 9.2.2.13C		YES	reject
DCHs To Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs To Delete		0 <maxno ofDCHs&gt;</maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.16		-	
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>RL Specific DCH Information	0		9.2.1.49A		-	
>RL specific E-DCH Information	0		9.2.2.35a		YES	reject
>E-DCH RL Indication	0		9.2.2.4E		YES	reject
DL Reference Power Information	0		9.2.2.10C		YES	ignore
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		YES	reject
HS-DSCH Information To Modify Unsynchronised	0		9.2.1.30NA		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DPCH Information		01			YES	reject
>Maximum Set of E- DPDCHs	0		9.2.2.24e		_	
>Puncture Limit	0		9.2.1.46		_	
>E-TFCS Information	0		9.2.2.4G		-	

>E-TTI	0		9.2.2.4J	-	
>E-DPCCH Power Offset	0		9.2.2.4K	-	
>E-RGCH 2-Index-Step Threshold	0		9.2.2.64	-	
>E-RGCH 3-Index-Step Threshold	0		9.2.2.65	-	
>HARQ Info for E-DCH	0		9.2.2.66	-	
>HS-DSCH Configured Indicator	0		9.2.2.19C	-	
E-DCH FDD Information	0		9.2.2.4B	YES	reject
E-DCH FDD Information to Modify	0		9.2.2.4F	YES	reject
E-DCH MAC-d Flows to Add	0		E-DCH MAC-d flows Information 9.2.2.4MC	YES	reject
E-DCH MAC-d Flows to Delete	0		9.2.1.90	YES	reject
Serving E-DCH RL	0		9.2.2.38C	YES	reject
CPC Information		01		YES	reject
>Continuous Packet Connectivity DTX-DRX Information	0		9.2.2.72	-	
>Continuous Packet Connectivity DTX-DRX Information To Modify	0		9.2.2.73	_	
>Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74	_	
>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator	0		9.2.2.75A	YES	reject

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofRLs	Maximum number of RLs for a UE.

# 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М	1	9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59			
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH Information To	<u> </u>	0 <maxnoof< td=""><td>0.2.1.2</td><td></td><td>EACH</td><td>notify</td></maxnoof<>	0.2.1.2		EACH	notify
Modify		CCTrCHs>			LAON	notity
>CCTrCH ID	М	001101132	9.2.3.2			
>TFCS	0		9.2.1.63			
>UL SIR Target	0		Uplink SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	reject
UL CCTrCH Information to Delete		0 <maxnoof CCTrCHs&gt;</maxnoof 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DL CCTrCH Information To Modify		0 <maxnoof CCTrCHs&gt;</maxnoof 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	0		9.2.1.63		_	
DL CCTrCH Information to Delete		0 <maxnoof CCTrCHs&gt;</maxnoof 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DCHs To Modify	0		TDD DCHs To Modify 9.2.3.8B		YES	reject
DCHs To Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxnoof DCHs&gt;</maxnoof 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
RL Information		0 <maxnoof RLs&gt;</maxnoof 			YES	ignore
>RL ID	М		9.2.1.49		-	
>RL Specific DCH Information	0		9.2.1.49A		-	
UL Synchronisation Parameters LCR		01		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	ignore
>Uplink Synchronisation Step Size	М		9.2.3.13J		_	
>Uplink Synchronisation Frequency	М		9.2.3.131		-	
HS-DSCH Information	0		HS-DSCH TDD Information 9.2.3.3aa		YES	reject
HS-DSCH Information To Modify Unsynchronised	0		9.2.1.30NA		YES	reject
HS-DSCH MAC-d Flows To Add	0		HS-DSCH MAC-d Flows Information 9.2.1.30OA		YES	reject
HS-DSCH MAC-d Flows To Delete	0		9.2.1.30OB		YES	reject
HS-PDSCH RL ID	0		RL ID 9.2.1.49		YES	reject
E-DCH Information		01		3.84Mcps TDD only	YES	reject

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
>E-PUCH Information	0		9.2.3.36		-	
>E-TFCS Information TDD	0		9.2.3.37		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information	0		9.2.3.40		-	
>E-DCH TDD Information to Modify	0		9.2.3.42		_	
E-DCH Serving RL	0		9.2.1.49	3.84Mcps TDD only	YES	reject
E-DCH Information 7.68Mcps		01		7.68Mcps TDD only	YES	reject
>E-PUCH Information	0		9.2.3.36		-	
>E-TFCS Information TDD	0		9.2.3.37		-	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information 7.68Mcps	0		9.2.3.51		-	
>E-DCH TDD Information to Modify	0		9.2.3.42		_	
E-DCH Information 1.28Mcps		01		1.28Mcps TDD only	YES	reject
>E-PUCH Information LCR	0		9.2.3.36a		_	
>E-TFCS Information TDD	0		9.2.3.37		_	
>E-DCH MAC-d Flows to Add	0		9.2.3.38		_	
>E-DCH MAC-d Flows to Delete	0		9.2.1.90		_	
>E-DCH TDD Information LCR	0		9.2.3.40a		-	
>E-DCH TDD Information to Modify	0		9.2.3.42		-	

Range Bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofRLs	Maximum number of RLs for one UE

#### 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

#### 9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>Not Used	0		NULL		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DL Power Balancing Updated Indicator	0		9.2.2.10D		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>F-DPCH Slot Format	0		9.2.2.85		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	Ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.

# 9.1.17.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		0 <maxno ofRLs&gt;</maxno 		See note 1 below	YES	ignore
>RL ID	М		9.2.1.49		Ι	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		Ι	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2			
>>DL DPCH To Modify LCR		01		Applicable to 1.28Mcps TDD only	YES	ignore
>>>DL Timeslot Information LCR		0 <maxno OfTSLCR &gt;</maxno 			-	
>>>Time Slot LCR	М		9.2.3.12a		_	
>>>>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	-	
>>>>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	-	
>>CCTrCH Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>>CCTrCH Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH Applicable to 3.84Mcps TDD and 7.68Mcps TDD only	YES	ignore
>Uplink Timing Advance Control LCR	0		9.2.3.13K	Applicable to 1.28Mcps TDD only	YES	ignore
Criticality Diagnostics	0		9.2.1.13	Í Í	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH TDD Information Response 9.2.3.3ab		YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore
E-DCH Information Response	0		E-DCH TDD Information Response 9.2.3.41	3.84Mcps TDD only	YES	ignore
E-DCH Information Response 7.68Mcps	0		E-DCH TDD Information Response 7.68Mcps 9.2.3.52	7.68Mcps TDD only	YES	ignore
E-DCH Information Response 1.28Mcps	0		E-DCH TDD Information Response 1.28Mcps 9.2.3.41a	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.

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTSLCRs	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofRLs	Maximum number of RLs for one UE

#### 9.1.18 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
CHOICE Reporting Object	Μ			Object for which the Failure shall be reported.	YES	ignore
>RL					—	
>>RL Information		1 <maxnoofrl s&gt;</maxnoofrl 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		_	
>>>Cause	Μ		9.2.1.5		-	
>RLS				FDD only	-	
>>RL Set Information		1 <maxnoofrl Sets&gt;</maxnoofrl 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		_	
>>>Cause	Μ		9.2.1.5		-	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.49		_	
>>CCTrCH List		1 <maxnoc CTrCHs&gt;</maxnoc 			EACH	ignore
>>>CCTrCH ID	М		9.2.3.2		_	
>>>Cause	М		9.2.1.5		_	

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.

#### 9.1.19 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59			
CHOICE Reporting Object	M			Object for which the Restoration shall be reported.	YES	ignore
>RL				TDD only	_	
>>RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	Μ		9.2.1.49		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxno ofRLSet s&gt;</maxno 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		_	
>CCTrCH				TDD only		
>>RL ID	М		9.2.1.49	-	_	
>>CCTrCH List		1 <max noCCTr CHs&gt;</max 			EACH	ignore
>>>CCTrCH ID	М		9.2.3.2		—	

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.

# 9.1.20 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Power Adjustment Type	М		9.2.2.28		YES	ignore
DL Reference Power	C-		DL Power		YES	ignore
	Common		9.2.1.21A			-

Inner Loop DL PC Status	0		9.2.2.21a	YES	ignore
DL Reference Power	C-	1 <maxnoo< td=""><td></td><td>EACH</td><td>ignore</td></maxnoo<>		EACH	ignore
Information	Individual	fRLs>			-
>RL ID	М		9.2.1.49	_	
>DL Reference Power	М		DL Power	_	
			9.2.1.21A		
Max Adjustment Step	C-		9.2.2.23	YES	ignore
	CommonO				-
	rIndividual				
Adjustment Period	C-		9.2.2.B	YES	ignore
-	CommonO				-
	rIndividual				
Adjustment Ratio	C-		9.2.2.C	YES	ignore
-	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 RLs for one UE.			

# 9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

#### 9.1.21.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
RL Information		1			YES	reject
>RL ID	М		9.2.1.49		_	
>DL Code Information	М		FDD DL Code Information 9.2.2.14A		YES	notify
>F-DPCH Slot Format	0		9.2.2.85		YES	Ignore

# 9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information		1			YES	reject
>RL ID	М		9.2.1.49		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs&gt;</maxnoof 			GLOBAL	reject
>>CCTrCH ID	Μ		9.2.3.2		_	
>>UL DPCH Information		1			YES	notify
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		-	
>>>UL Timeslot Information		0 <maxno OfTS&gt;</maxno 		Applicable to 3.84Mcps TDD only	-	
>>>>Time Slot	М		9.2.1.56	-	_	
>>>>Midamble Shift And Burst Type	0		9.2.3.4		_	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information	0		TDD UL Code Information 9.2.3.10A		-	
>>>UL Timeslot Information LCR		0 <maxno OfTSLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	М		9.2.3.12a		-	
>>>>Midamble Shift LCR	0		9.2.3.4C		_	
>>>>TFCI Presence	0		9.2.1.55		-	
>>>>UL Code Information LCR	0		TDD UL Code Information LCR 9.2.3.10B		_	
>>>>PLCCH Information	0		9.2.3.17		YES	Reject
>>>UL Timeslot Information 7.68Mcps		0 <maxno OfTS&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	М		9.2.1.56	<b>·</b>	_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.55		_	<u> </u>
>>>>UL Code Information 7.68Mcps	0		TDD UL Code Information 9.2.3.27		_	
>DL CCTrCH Information		0 <maxno ofCCTrCH s&gt;</maxno 			GLOBAL	reject
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information		1			YES	notify
>>>Repetition Period	0		9.2.3.7		-	
>>>Repetition Length	0		9.2.3.6		—	
>>>TDD DPCH Offset	0		9.2.3.8A		Ι	
>>>DL Timeslot Information		0 <maxno OfTS&gt;</maxno 		Applicable to 3.84Mcps TDD only	_	
>>>>Time Slot	М		9.2.1.56		_	
>>>>Midamble Shift	0		9.2.3.4		_	

And Burst Type						
>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information	0		TDD DL Code Information 9.2.3.8C		-	
>>>DL Timeslot Information LCR		0 <maxno OfTSLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>>>Time Slot LCR	Μ		9.2.3.12a		_	
>>>>Midamble Shift LCR	0		9.2.3.4C		_	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information LCR	0		TDD DL Code Information LCR 9.2.3.8D		-	
>>>DL Timeslot Information 7.68Mcps		0 <maxno OfTS&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	reject
>>>>Time Slot	Μ		9.2.1.56		_	
>>>>Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23		-	
>>>>TFCI Presence	0		9.2.1.55		_	
>>>>DL Code Information 7.68Mcps	0		TDD DL Code Information 7.68Mcps 9.2.3.29		Ι	
>HS-PDSCH Timeslot Specific Information		0 <maxno ofDLts&gt;</maxno 		Applicable to 3.84Mcps TDD only.	GLOBAL	reject
>>Time Slot	М		9.2.1.56		—	
>>Midamble Shift And Burst Type	М		9.2.3.4		_	
>HS-PDSCH Timeslot Specific Information LCR		0 <maxno ofDLtsLCR &gt;</maxno 		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>Time Slot LCR	М		9.2.3.12a		-	
>>Midamble Shift LCR	М		9.2.3.4C		_	
>HS-PDSCH Timeslot Specific Information 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD only.	GLOBAL	reject
>>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>UARFCN	0		9.2.1.66	Applicable to 1.28Mcps TDD only.	YES	ignore

Range bound	Explanation
maxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
maxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD or
	7.68Mcps TDD.
maxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD.
maxnoofDLts	Maximum number of downlink time slots per Radio Link for
	3.84Mcps TDD or 7.68Mcps TDD.
maxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for
	1.28Mcps TDD.

# 9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
CFN	Μ		9.2.1.9		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

#### 9.1.23 PHYSICAL CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Cause	Μ		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

#### 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

#### 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			,, <b>,</b>
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
UC-ID	М		9.2.1.71		YES	ignore
SAI	М		9.2.1.52		YES	ignore
Cell GAI	0		9.2.1.5A		YES	ignore
C-RNTI	М		9.2.1.14		YES	ignore
S-RNTI	М		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
Propagation Delay	М		9.2.2.33		YES	ignore
STTD Support Indicator	М		9.2.2.45		YES	ignore
Closed Loop Mode1 Support	М		9.2.2.2		YES	ignore
Indicator						
L3 Information	Μ		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B		YES	ignore
Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
DPC Mode Change Support	0		9.2.2.56		YES	ignore
Indicator						-
Common Transport Channel	0		9.2.1.12F		YES	Ignore
Resources Initialisation Not						
Required						

Cell Capability Container FDD	0		9.2.2.D	YES	ignore
SNA Information	0		9.2.1.52Ca	YES	ignore
Cell Portion ID	0		9.2.2.E	YES	ignore
Active MBMS Bearer Service List		0 <max noofActiv eMBMS &gt;</max 		GLOBAL	ignore
>TMGI	М		9.2.1.80	_	
>Transmission Mode	М		9.2.1.81	_	
Inter-frequency Cell List		0 <max CellsMe as&gt;</max 		GLOBAL	ignore
>DL UARFCN	М		UARFCN 9.2.1.66	-	
>UL UARFCN	0		UARFCN 9.2.1.66	-	
>Primary Scrambling Code	Μ		9.2.1.45	_	
Extended Propagation Delay	0		9.2.2.33a	YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P	YES	ignore
Multiple PLMN List	0		9.2.1.117	YES	ignore

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.
maxCellsMeas	Maximum number of inter-frequency cells measured by a UE.

# 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
UC-ID	Μ		9.2.1.71		YES	ignore
SAI	Μ		9.2.1.52		YES	ignore
Cell GAI	0		9.2.1.5A		YES	Ignore
C-RNTI	Μ		9.2.1.14		YES	ignore
S-RNTI	Μ		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
Rx Timing Deviation	Μ		9.2.3.7A		YES	ignore
L3 Information	Μ		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B		YES	ignore
Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
Common Transport Channel Resources Initialisation Not Required	0		9.2.1.12F		YES	ignore
Cell Capability Container TDD	0		9.2.3.1a	Applicable to 3.84Mcps TDD only	YES	ignore
Cell Capability Container TDD LCR	0		9.2.3.1b	Applicable to 1.28Mcps TDD only	YES	ignore
SNA Information	0		9.2.1.52Ca		YES	ignore
Active MBMS Bearer Service List		0 <max noofActiv eMBMS &gt;</max 			GLOBAL	ignore
>TMGI	Μ		9.2.1.80		-	
>Transmission Mode	Μ		9.2.1.81		_	
Cell Capability Container 7.68Mcps TDD	0		9.2.3.31	Applicable to 7.68Mcps TDD only	YES	ignore
Rx Timing Deviation 7.68Mcps	0		9.2.3.30	Applicable to 7.68Mcps TDD only	YES	ignore
Rx Timing Deviation 3.84Mcps Extended	0		9.2.3.35	Applicable to 3.84Mcps TDD only	YES	ignore
Multiple PLMN List	0		9.2.1.117		YES	ignore

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

# 9.1.24A GERAN UPLINK SIGNALLING TRANSFER INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
UC-ID	M		9.2.1.71	UC-ID may be a GERAN cell identifier.	YES	ignore
SAI	М		9.2.1.52		YES	ignore
S-RNTI	М		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
L3 Information	Μ		9.2.1.32		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA Information	0		9.2.1.70B	URA information may be GRA information	YES	ignore

#### 9.1.25 DOWNLINK SIGNALLING TRANSFER REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
C-ID	М		9.2.1.6	May be a GERAN cell identifier	YES	ignore
D-RNTI	Μ		9.2.1.24		YES	ignore
L3 Information	Μ		9.2.1.32		YES	ignore
D-RNTI Release Indication	Μ		9.2.1.25		YES	ignore
URA-ID	0		9.2.1.70		YES	ignore
MBMS Bearer Service List		0 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	Μ		9.2.1.80		_	
Old URA-ID	0		URA-ID 9.2.1.70		YES	ignore
SRNC-ID	C-URA		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	YES	ignore
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Enhanced PCH Capability	0		9.2.2.88	FDD only	YES	Ignore

Condition	Explanation
URA	The IE shall be present if the URA-ID IE or Old URA-ID IE is present.

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Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

### 9.1.26 RELOCATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
D-RNTI	0		9.2.1.24		YES	ignore
RANAP Relocation Information	0		9.2.1.47		YES	ignore

# 9.1.27 PAGING REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
CHOICE Paging Area	М				YES	ignore
>URA					_	
>>URA-ID	M		9.2.1.70	May be a GRA-ID.	-	
>Cell				UTRAN only	-	
>>C-ID	Μ		9.2.1.6		-	
SRNC-ID	M		RNC-ID 9.2.1.50	May be a BSC-ID. If the <i>Extended</i> <i>SRNC-ID</i> IE is included in the message, the <i>SRNC-ID</i> IE shall be ignored.	YES	ignore
S-RNTI	Μ		9.2.1.53		YES	ignore
IMSI	Μ		9.2.1.31		YES	ignore
DRX Cycle Length Coefficient	Μ		9.2.1.26		YES	ignore
CN Originated Page to Connected Mode UE		01			YES	ignore
>Paging Cause	М		9.2.1.41E		-	
>CN Domain Type	Μ		9.2.1.11A		_	
>Paging Record Type	М		9.2.1.41F		_	
Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject
Enhanced PCH Capability	0		9.2.2.88	FDD only	YES	Ignore

# 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
Measurement ID	Μ		9.2.1.37		YES	reject
CHOICE Dedicated Measurement Object Type	М				YES	reject
>RL					-	
>>RL Information		1 <maxn oofRLs&gt;</maxn 			EACH	reject
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	_	
>>>HS-SICH Information		0 <maxn oofHSSI CHs&gt;</maxn 		TDD only	GLOBAL	reject
>>>HS-SICH ID	Μ		9.2.3.3ad		_	
>RLS				FDD only	_	
>>RL Set Information		1 <maxn oofRLSet s&gt;</maxn 			EACH	reject
>>>RL-Set-ID	М		9.2.2.35		-	
>ALL RL			NULL		_	
>ALL RLS			NULL	FDD only	_	
Dedicated Measurement Type	Μ		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	Μ		9.2.1.48		YES	reject
CFN reporting indicator	M		FN reporting indicator 9.2.1.28A		YES	reject
CFN	0		9.2.1.9		YES	reject
Partial Reporting Indicator	0		9.2.1.41Fa		YES	ignore
Measurement Recovery Behavior	0		9.2.1.38A		YES	ignore
Alternative Format Reporting Indicator	0		9.2.1.2D		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs a measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets a measurement can be started
	on.

# 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
Measurement ID	M		9.2.1.37		YES	ignore
CHOICE Dedicated	0		3.2.1.37	Dedicated	YES	ignore
>RL or ALL RL				Measurement Object Type the measurement was initiated with See Note 1		giore
>>RL Information		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
		ofRLs>				guere
>>>RL ID	М	0.1.1_0.7	9.2.1.49		_	-
>>>DPCH ID	0		9.2.3.3	TDD only		
	0		9.2.3.3		—	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	_	
>>>Dedicated	Μ	1	9.2.1.19	j	_	
Measurement Value						
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	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		9.2.3.3	100 01119	_	
						-
>>>>Dedicated	М		9.2.1.19		-	
Measurement Value						
>>>Multiple Dedicated Measurement Value Information LCR		0 <maxno ofDPCHsL CRPerRL- 1&gt;</maxno 		Applicable to 1.28McpsTD D only	GLOBAL	ignore
>>>>DPCH ID	М		9.2.3.3			-
>>>>Dedicated	M		9.2.1.19			-
	IVI		9.2.1.19		—	
Measurement Value			-			
>>>Multiple HS-SICH Measurement Value Information		0 <maxno ofHSSICHs -1&gt;</maxno 		TDD only	GLOBAL	ignore
>>>HS-SICH ID	М		9.2.3.3ad		_	
>>>>Dedicated	М	1	9.2.1.19		_	
Measurement Value	1	1	_			
>>>Multiple Dedicated Measurement Value Information 7.68Mcps		0 <maxno ofDPCHs7 68PerRL- 1&gt;</maxno 		Applicable to 7.68Mcps TDD only	GLOBAL	ignore
>>>>DPCH ID 7.68Mcps	М		9.2.3.34		-	
>>>>Dedicated Measurement Value	М		9.2.1.19		-	
>RLS or ALL RLS				FDD only See Note 2	-	
>>RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		_	
>>>Dedicated	M	1	9.2.1.19			

Measurement Value					
>>>CFN	0	9.2.1.9	Dedicated Measuremen t Time Reference	_	
Criticality Diagnostics	0	9.2.1.13		YES	Ignore
Measurement Recovery Support Indicator	0	9.2.1.38C		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the 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.

# 9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					-	
>>Unsuccessful RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Individual Cause	0		Cause 9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information		ofRLs-1>				-
>>>RL ID	М		9.2.1.49			
>>>DPCH ID	0		9.2.3.3	TDD only	Ι	
>>>Dedicated Measurement Value	М		9.2.1.19		-	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	reject
>RLS or ALL RLS				FDD only	-	
>>Unsuccessful RL Set Information		1 <maxno ofRLSets&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		-	
>>>Individual Cause	0		Cause 9.2.1.5		-	
>>Successful RL Set Information		0 <maxno ofRLSets- 1&gt;</maxno 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		-	
>>>Dedicated Measurement Value	М		9.2.1.19		-	
>>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

### 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
Measurement ID	Μ		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	М			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL				See Note 1	-	
>>RL Information		1 <maxnoo fRLs&gt;</maxnoo 			EACH	ignore
>>>RL-ID	Μ		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	-	
>>>DPCH ID 7.68Mcps	0		9.2.3.34	7.68Mcps TDD only	-	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		-	
>>>HS-SICH ID	0		9.2.3.3ad	TDD only	YES	ignore
>RLS or ALL RLS				FDD only See Note 2	-	
>>RL Set Information		1 <maxnoo fRLSets&gt;</maxnoo 			EACH	ignore
>>>RL Set ID	Μ		9.2.2.35		-	
>>>Dedicated Measurement Value Information	М		9.2.1.19A		_	
Measurement Recovery Reporting Indicator	0		9.2.1.38B		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started
	on.
maxnoofRLSets	Maximum number of individual RL Sets the 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.

### 9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore

# 9.1.33 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measuremen t Object Type the measuremen t was initiated with	YES	ignore
>RL or ALL RL					-	
>>Unsuccessful RL Information		1 <maxnoof RLs&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		-	
>>>Individual Cause	0		Cause 9.2.1.5		-	
>RLS or ALL RLS				FDD only	_	
>>Unsuccessful RL Set Information		1 <maxnoof RLSets&gt;</maxnoof 			EACH	ignore
>>>RL Set ID	М		9.2.2.35		-	
>>>Individual Cause	0		Cause 9.2.1.5		_	

Range bound	Explanation
maxnoofRLs	Maximum number of individual RLs the measurement can be started on.
maxnoofRLSets	Maximum number of individual RL Sets the measurement can be started
	on.

### 9.1.34 COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		_	
D-RNTI	Μ		9.2.1.24		YES	ignore

# 9.1.35 COMMON TRANSPORT CHANNEL RESOURCES REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		—	
D-RNTI	М		9.2.1.24		YES	reject
C-ID	0		9.2.1.6		YES	reject
Transport Bearer Request Indicator	М		9.2.1.61	Request a new transport bearer or to use an existing bearer for the user plane.	YES	reject
Transport Bearer ID	М		9.2.1.60	Indicates the lur transport bearer to be used for the user plane.	YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
MBMS Bearer Service List		0 <max noofMB MS&gt;</max 			GLOBAL	notify
>TMGI	М		9.2.1.80		_	
TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
Enhanced FACH Support Indicator	0		9.2.2.80	FDD only	YES	Ignore

Range bound	Explanation					
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.					

# 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

### 9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI FACH Info for UE Selected	0	4	9.2.1.14		YES YES	ignore
S-CCPCH		1				ignore
>FACH Flow Control Information	M		9.2.1.26C	If the Enhanced FACH Information Response IE is included in the message, the FACH Flow Control Information IE shall be ignored.	YES	ignore
Transport Layer Address	0		9.2.1.62	ignored.	YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
C-ID	M		9.2.1.6		YES	ignore
Active MBMS Bearer		0 <maxnoo< td=""><td>0.2.110</td><td></td><td>GLOBAL</td><td>ignore</td></maxnoo<>	0.2.110		GLOBAL	ignore
Service List		fActiveMB MS>			0200/12	ignore
>TMGI	Μ		9.2.1.80		-	
>Transmission Mode	Μ		9.2.1.81		-	
Enhanced FACH Information Response		0 1			YES	ignore
>Common HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PC H 9.2.2.82		_	
>Dedicated HS-DSCH- RNTI Priority Queue Information for Enhanced FACH	М		Priority Queue Information for Enhanced FACH/PC H 9.2.2.82		_	
>Priority Queue Information for Enhanced PCH	0		Priority Queue Information for Enhanced FACH/PC H 9.2.2.82		_	
>HS-DSCH Initial Capacity Allocation	М		9.2.1.30Na		_	
>HS-DSCH-RNTI	0		9.2.1.30P		-	

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

#### 9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
S-RNTI	Μ		9.2.1.53		YES	ignore
C-RNTI	0		9.2.1.14		YES	ignore
FACH Info for UE Selected S-CCPCHs		1			YES	ignore
>FACH Flow Control Information	М		9.2.1.26C		YES	ignore
Transport Layer Address	0		9.2.1.62		YES	ignore
Binding Identity	0		9.2.1.3		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
C-ID	М		9.2.1.6		YES	ignore
Active MBMS Bearer Service List		0 <maxno ofActiveMB MS&gt;</maxno 			GLOBAL	ignore
>TMGI	Μ		9.2.1.80		_	
>Transmission Mode	М		9.2.1.81		_	

Range bound	Explanation
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in
	parallel.

### 9.1.37 COMMON TRANSPORT CHANNEL RESOURCES FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
S-RNTI	М		9.2.1.53		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.38 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Active Pattern Sequence Information	М		9.2.2.A		YES	ignore

# 9.1.39 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
Cause	0		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
S-RNTI	0		9.2.1.53		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore

# 9.1.40 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
DL Time Slot ISCP Info	0		9.2.3.2D	Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, not applicable to 1.28Mcps TDD	YES	ignore
DL Time Slot ISCP Info LCR	0		9.2.3.2F	Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD	YES	ignore
Primary CCPCH RSCP	0		9.2.3.5		YES	ignore
Primary CCPCH RSCP Delta	0		9.2.3.5a		YES	ignore

# 9.1.41 RADIO LINK PREEMPTION REQUIRED INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
RL Information		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			EACH	ignore
>>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
HS-DSCH MAC-d Flow Specific Information		0 <maxno ofMACdFI ows&gt;</maxno 			EACH	ignore
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		-	

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

### 9.1.42 RADIO LINK CONGESTION INDICATION

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59			
Congestion Cause	0		9.2.1.79		YES	ignore
RL Information		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>DCH Rate Information		1 <maxno ofDCHs&gt;</maxno 			EACH	ignore
>>DCH ID	М		9.2.1.16		_	
>>Allowed Rate Information	0		9.2.1.2A		-	
>E-DCH MAC-d Flow Specific Information		0 <maxno ofEDCHM ACdFlows &gt;</maxno 			EACH	ignore
>>E-DCH MAC-d Flow ID	М		9.2.1.91		_	

Range bound	Explanation
maxnoofRLs	Maximum number of Radio Links for one UE
maxnoofDCHs	Maximum number of DCHs for one UE.
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.1.43 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	reject
CHOICE Common Measurement Object Type >Cell	М				YES	reject
>>Reference Cell Identifier	М		UTRAN Cell Identifier 9.2.1.71	May be a GERAN Cell Identifier		
>>Time Slot	0		9.2.1.56	3.84Mcps TDD and 7.68 Mcps TDD only	-	
>>Time Slot LCR	0		9.2.3.12a	1.28Mcps TDD only	_	
>>Neighbouring Cell Measurement Information		0 <maxnoof MeasNCells &gt;</maxnoof 		UTRAN only	-	
>>>CHOICE Neighbouring Cell Measurement Information					_	
>>>>Neighbourin g FDD Cell Measurement Information				FDD only	_	
>>>>Neighbo uring FDD Cell Measurement Information	М		9.2.1.41G		_	
>>>>Neighbourin g TDD Cell Measurement Information				3.84Mcps TDD only	-	
>>>>Neighbo uring TDD Cell Measurement Information	М		9.2.1.41H		-	
>>>>Additional Neighbouring Cell Measurement Information					_	
>>>>Neighbo uring TDD Cell Measurement InformationLC R				1.28Mcps TDD only	_	
>>>>>Neig hbouring TDD Cell Measureme nt InformationL CR	М		9.2.1.41Dd		YES	reject
>>>Additional Neighbouring Cell Measurement Information 7.68Mcps					_	
>>>>Neighbo		1		7.68Mcps	_	

uring TDD Cell Measurement Information 7.68 Mcps			TDD only		
>>>>>Neig hbouring TDD Cell Measureme nt Information 7.68 Mcps	M	9.2.3.32		YES	reject
>>UARFCN	0	9.2.1.66	Applicable to 1.28Mcps TDD only.	YES	ignore
>>UpPCH Position LCR	0	9.2.3.56	Applicable to 1.28Mcps TDD only.	YES	ignore
Common Measurement Type	M	9.2.1.12C		YES	reject
Measurement Filter Coefficient	0	9.2.1.41	UTRAN only	YES	reject
Report Characteristics	M	9.2.1.48		YES	reject
SFN reporting indicator	М	FN reporting indicator 9.2.1.28A		YES	reject
SFN	0	9.2.1.52A	UTRAN only	YES	reject
Common Measurement Accuracy	0	9.2.1.12A	UTRAN only	YES	reject
Measurement Recovery Behavior	0	9.2.1.38A	UTRAN only	YES	ignore

Range bound	Explanation				
maxnoofMeasNCell	Maximum number of neighbouring cells on which				
	measurements can be performed.				

# 9.1.44 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	0			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					_	
>Common Measurement value	М		9.2.1.12D		-	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
Common Measurement Achieved Accuracy	0		Common Measurem ent Accuracy 9.2.1.12A	UTRAN only	YES	ignore
Measurement Recovery Support Indicator	0		9.2.1.38C	UTRAN only	YES	ignore

### 9.1.45 COMMON MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore
Cause	Μ		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.46 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement ID	М		9.2.1.37		YES	ignore
CHOICE Common Measurement Object Type	Μ			Common Measuremen t Object Type that the measuremen t was initiated with.	YES	ignore
>Cell					_	
>>Common Measurement Value Information	M		9.2.1.12E		_	
SFN	0		9.2.1.52A	Common Measuremen t Time Reference, UTRAN only.	YES	ignore
Measurement Recovery Reporting Indicator	0		9.2.1.38B	UTRAN only	YES	ignore

### 9.1.47 COMMON MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore

# 9.1.48 COMMON MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore

# 9.1.49 INFORMATION EXCHANGE INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	-
Information Exchange ID	М		9.2.1.31A		YES	reject
CHOICE Information Exchange Object Type	М				YES	reject
>Cell					_	
>>C-ID	М		9.2.1.6	May be a GERAN cell identifier	-	
>Additional Information Exchange Object Types					-	
>>GSM Cell					_	
>>>CGI	М		9.2.1.5D		-	
>>MBMS Bearer Service					_	
>>>MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	reject
>>>TMGI	М		9.2.1.80		_	
Information Type	М		9.2.1.31E		YES	reject
Information Report Characteristics	М		9.2.1.31C		YES	reject

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.50 INFORMATION EXCHANGE INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
Information Exchange ID	Μ		9.2.1.31A		YES	ignore
CHOICE Information Exchange Object Type	0				YES	ignore
>Cell					-	
>>Requested Data Value	М		9.2.1.48A		-	
>Additional Information Exchange Object Types					Ι	
>>MBMS Bearer Service					-	
>>>MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>>>>TMGI	Μ		9.2.1.80		-	
>>>Requested Data Value	М		9.2.1.48A		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.

# 9.1.51 INFORMATION EXCHANGE INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		-	
Information Exchange ID	Μ		9.2.1.31A		YES	ignore
Cause	Μ		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

### 9.1.52 INFORMATION REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Information Exchange ID	М		9.2.1.31A		YES	ignore
CHOICE Information Exchange Object Type	М				YES	ignore
>Cell					-	
>>Requested Data Value Information	М		9.2.1.48B		_	

# 9.1.53 INFORMATION EXCHANGE TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Information Exchange ID	Μ		9.2.1.31A		YES	ignore

# 9.1.54 INFORMATION EXCHANGE FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Information Exchange ID	М		9.2.1.31A		YES	ignore
Cause	М		9.2.1.5		YES	ignore

# 9.1.55 RESET REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantic s Descripti on	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	

RNC-ID	M		9.2.1.50	Identity of the sending RNC. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-</i> <i>ID</i> IE shall be ignored.	YES	reject
CHOICE Reset Indicator	М				YES	reject
>Context		1 <maxre< td=""><td></td><td></td><td></td><td>roicat</td></maxre<>				roicat
>>Context Information		setContext			EACH	reject
>>>CHOICE Context Type	Μ				-	
>>>SRNTI					-	
>>>>S-RNTI	М		9.2.1.53		_	
>>>DRNTI					_	
>>>>D-RNTI	М		9.2.1.24		_	
>All Contexts			NULL		_	
>Context Group					_	
>>Context Group Information		1 <maxre setContext Groups&gt;</maxre 			EACH	reject
>>>S-RNTI Group	М		9.2.1.53a		-	
Extended RNC-ID	0		9.2.1.50a	Identity of the sending RNC. The <i>Extended</i> <i>RNC-ID</i> IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation
maxResetContext	Maximum number of contexts that can be reset by
	one RESET message.
maxResetContextGroups	Maximum number of context groups that can be reset
	by one RESET message.

# 9.1.56 RESET RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RNC-ID	Μ		9.2.1.50	Identity of the sending RNC. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-ID</i> IE shall be ignored.	YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
Extended RNC-ID	0		9.2.1.50a	Identity of the sending RNC. The <i>Extended</i> <i>RNC-ID</i> IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

# 9.1.57 RADIO LINK ACTIVATION COMMAND

### 9.1.57.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		-	
Delayed activation		1 <maxnoofrl< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoofrl<>			EACH	ignore
Information		S>				
>RL ID	М		9.2.1.49		-	
>Delayed Activation	М		9.2.1.19Ab		-	
Update						

### 9.1.57.2 TDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics	Criticality	Assigned
			Reference	Description		Criticality
Message Type	М		9.2.1.46		YES	ignore
Transaction ID	М		9.2.1.62		_	
Delayed activation		1 <maxnoofrl< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoofrl<>			EACH	ignore
Information		S>				
>RL ID	М		9.2.1.49		-	
>Delayed Activation	М		9.2.1.19Ab		-	
Update						

# 9.1.58 RADIO LINK PARAMETER UPDATE INDICATION

### 9.1.58.1 FDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
HS-DSCH FDD Update Information	0		9.2.2.19c		YES	ignore
RL Information		0 <max noofRLs &gt;</max 			EACH	ignore
>RL ld	М		9.2.1.49		-	
>Phase Reference Update Indicator	0		9.2.2.27B		_	
E-DCH FDD Update Information	0		9.2.2.19e		YES	ignore

### 9.1.58.2 TDD Message

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
HS-DSCH TDD Update Information	0		9.2.3.3ac		YES	ignore

# 9.1.59 UE MEASUREMENT INITIATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Allowed Queing Time	0		9.2.1.2		YES	reject
Measurement ID	М		9.2.1.37		YES	reject
UE Measurement Type	М		9.2.3.13Fh		YES	reject
UE Measurement Timeslot information HCR	0		9.2.3.13Fe	3.84 Mcps TDD only	YES	reject
UE Measurement Timeslot information LCR	0		9.2.3.13Ff	1.28 Mcps TDD only	YES	reject
UE Measurement Timeslot information 7.68Mcps	0		9.2.3.33	7.68 Mcps TDD only	YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
UE Measurement Report Characteristics	М		9.2.3.13Fc		YES	reject
UE Measurement Parameter Modification Allowed	0		9.2.3.13Fb		YES	reject

# 9.1.60 UE MEASUREMENT INITIATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
Measurement ID	M		9.2.1.37		YES	ignore
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
UE Measurement Report Characteristics	0		9.2.3.13Fc		YES	reject
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.61 UE MEASUREMENT INITIATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

# 9.1.62 UE MEASUREMENT REPORT [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
Measurement ID	Μ		9.2.1.37		YES	ignore
UE Measurement Value Information	М		9.2.3.13Fj		YES	ignore

# 9.1.63 UE MEASUREMENT TERMINATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		-	
Measurement ID	М		9.2.1.37		YES	ignore

# 9.1.64 UE MEASUREMENT FAILURE INDICATION [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
Measurement ID	M		9.2.1.37		YES	ignore
Cause	M		9.2.1.5		YES	ignore

# 9.1.65 IUR INVOKE TRACE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.40		YES	ignore
Transaction ID	Μ		9.2.1.59		-	
D-RNTI	0		9.2.1.24		YES	ignore
Trace Reference	Μ		9.2.1.58c		YES	ignore
UE Identity	Μ		9.2.1.66A		YES	ignore
Trace Recording Session Reference	Μ		9.2.1.58b		YES	ignore
List Of Interfaces To Trace		0maxnoo fInterfaces			EACH	ignore
>Interface	M		ENUMERA TED (lub, lur,)		-	
Trace Depth	М		9.2.1.58a		YES	ignore

Range bound	Explanation		
maxnoofInterfaces	Maximum of Interfaces to be traced.		

# 9.1.66 IUR DEACTIVATE TRACE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		—	
D-RNTI	0		9.2.1.24		YES	ignore
Trace Reference	М		9.2.1.58c		YES	ignore

# 9.1.67 MBMS ATTACH COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		-	
CHOICE UE State	0				YES	ignore
>CELL_FACH/CELL_PCH					-	
>>D-RNTI	М		9.2.1.24		—	
>URA_PCH					—	
>>SRNC-ID	M		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	_	
>>URA-ID	М		9.2.1.70		—	
>>Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation				
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.				

# 9.1.68 MBMS DETACH COMMAND

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
MBMS Bearer Service List		1 <maxno ofMBMS&gt;</maxno 			GLOBAL	ignore
>TMGI	М		9.2.1.80		_	
CHOICE UE State	0				YES	ignore
>CELL_FACH/CELL_PCH					-	
>>D-RNTI	М		9.2.1.24		—	
>URA_PCH					_	
>>SRNC-ID	M		RNC-ID 9.2.1.50	If the Extended SRNC-ID IE is included in the message, the SRNC-ID IE shall be ignored.	_	
>>URA-ID	Μ		9.2.1.70		—	
>>Extended SRNC-ID	0		Extended RNC-ID 9.2.1.50a	The Extended SRNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation			
maxnoofMBMS	Maximum number of MBMS bearer services that a UE can join.			

# 9.1.69 DIRECT INFORMATION TRANSFER

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
RNC-ID	М		9.2.1.50	ID of an RNC which initiates the procedure. If the <i>Extended</i> <i>RNC-ID</i> IE is included in the message, the <i>RNC-ID</i> IE shall be ignored.	YES	ignore
Provided Information	М		9.2.1.85		YES	ignore
Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

# 9.2 Information Element Functional Definition and Contents

### 9.2.0 General

Subclause 9.2 presents the RNSAP 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, in which 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

This subclause contains parameters that are common to FDD and TDD.

#### 9.2.1.1 Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of transport channel resources in DRNS. DRNS may use the Allocation/Retention priority information of the transport channels composing the RL to prioritise requests for RL Setup/addition and reconfiguration. In similar way, DRNS may use the allocation/Retention priority information of the transport channels composing the RL to prioritise which RL shall be set to failure, in case prioritisation is possible. See Annex A.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Level	М		INTEGER(0. .15)	This IE indicates the priority of the request. Usage: 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	М		ENUMERAT ED(shall not trigger pre- emption, may trigger pre-emption)	
Pre-emption Vulnerability	М		ENUMERAT ED(not pre- emptable, pre- emptable)	

#### 9.2.1.2 Allowed Queuing Time

This parameter specifies the maximum queuing time that is allowed in the DRNS until the DRNS must start to execute the request.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Allowed Queuing Time			INTEGER(1. .60)	Unit: Seconds

#### 9.2.1.2A Allowed Rate Information

The *Allowed Rate Information* IE indicates the TFI corresponding to the highest allowed bit rate for the uplink and/or the downlink of a DCH. The SRNC is allowed to use any rate being lower than or equal to the rate corresponding to the indicated TFI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Allowed UL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, 
Allowed DL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, 

#### 9.2.1.2B Altitude and Direction

This IE contains a description of Altitude and Direction.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Direction of Altitude	M		ENUMERAT ED(Height, Depth)	
Altitude	M		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 $N=2^{15}-1$ for which the range is extended to include all grater values of (a).

#### 9.2.1.2C Antenna Co-location Indicator

The Antenna Co-location Indicator indicates whether the antenna of the serving and neighbouring cells are approximately co-located.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Antenna Co-location			ENUMERAT	
Indicator			ED(co-	
			located,)	

#### 9.2.1.2D Alternative Format Reporting Indicator

This IE indicates if DRNS may report a measurement using an alternative format.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Alternative Format Reporting Indicator			ENUMERAT ED (Alternative format is allowed,)	

#### 9.2.1.3 Binding ID

The Binding ID is the identifier of a user data stream.

In case of transport bearer establishment with ALCAP [3][35], this IE contains the identifier that is allocated at the DRNS and that is unique for each transport bearer under establishment to/from the DRNS.

If the Transport Layer Address contains an IP address [33], this IE contains the UDP port [34] 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 octet 1 and 2. The first octet of the UDP port field shall be included in the first octet of the Binding ID.

#### 9.2.1.4 BLER

This Block Error Rate defines the target radio interface Transport Block Error Rate of the transport channel . BLER is used by the DRNS to determine the needed SIR targets, for admission control and power management reasons.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
BLER			INTEGER(- 630)	Step 0.1. (Range –6.30). It is the Log10 of the BLER

#### 9.2.1.4A Block STTD Indicator

Void.

#### 9.2.1.4B Burst Mode Parameters

The Burst Mode Parameters IE provides all the relevant information in order to able IPDL in the Burst mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
Burst Start	Μ		INTEGER(0. .15)	See [10] and [22]
Burst Length	Μ		INTEGER(1 025)	See [10] and [22]
Burst freq	Μ		INTEGER(1. .16)	See [10] and [22]

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#### 9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

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CHOICE Cause Group       M         >Radio Network Layer          >>Radio Network Layer       M         Cause       ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported,
>>Radio Network Layer M Cause In the second seco
Cause (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining not Supported, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not
Measurement Temporarily not         Available,         Unspecified,         Invalid CM Settings,         Reconfiguration CPN not Elapsed,         Number of DL Codes Not Supported,         Decidated Transport Channel Type not         Supported,         UL Shared Channel Type not         Supported,         UL Shared Channel Type not         Supported,         UL Spreading Factor not Supported,         Common Transport Channel Type not         Supported,         UL Spreading Factor not Supported,         CM not Supported,         Transaction not Supported,         Transaction not Supported,         Turnspective Conception         Number of UL Codes Not Supported,         Cell reserved for operator use,         DPC Mode Change not Supported,         Cell reserved for operator use,         DPC Mode Change not Supported,         Information Provision not supported,         Rt Timing Adjustment Not Supported,         Dataset         Delayed Activation not Supported,         Romantible,         Delayed Activation not Supported,         Rt Timing Adjustment Not Supported,         Ruhrown RNTI,         Measurement,

>Transport Layer		
>>Transport Layer Cause	М	ENUMERATED (Transport Resource Unavailable, Unspecified, )
>Protocol		
>>Protocol Cause	М	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	М	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
Cell not Available	The concerned cell is not available
Cell reserved for operator use	The concerned cell is reserved for operator use
Combining not Supported	The DRNS does not support the RL combining for the concerned cells
Combining Resources Not	The value of the received Diversity Control Field IE was set to "Must",
Available	but the DRNS cannot perform the requested combining
CM not Supported	The concerned cell(s) do not support Compressed Mode
Common Transport Channel Type	The concerned cell(s) do not support the RACH and/or FACH Common
not 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	The concerned cell(s) do not support the Continuous Packet Connectivity
DTX-DRX operation not	DTX-DRX operation
Supported	
Continuous Packet Connectivity	The concerned cell(s) do not support the Continuous Packet Connectivity
HS-SCCH less operation not	HS-SCCH less operation
Supported	
Continuous Packet Connectivity	CPC resources for the UE DTX Cycle not available in the concerned
UE DTX Cycle not available	cell(s).
Dedicated Transport Channel Type	The concerned cell(s) do not support the Dedicated Transport Channel
not Supported	Туре
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs
DL Radio Resources not Available	The DRNS 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 Type
Supported	
DPC Mode Change not Supported	The concerned cells do not support the DPC mode changes
E-DCH not supported	The concerned cell(s) do not support E-DCH
E-DCH TTI2ms not supported	The concerned cell(s) do not support the E-DCH 2ms TTI operation
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH
F-DPCH Slot Format operation not	The concerned cell(s) do not support the F-DPCH Slot Format operation
supported	
HS-DSCH MAC-d PDU Size	The concerned cell(s) do not support the selected HS-DSCH MAC-d
Format not supported	PDU Size Format

Information Provision not	The RNS doesn't support provision of the requested information for the
supported for the object	concerned object types
Information temporarily not available	The RNS can temporarily not provide the requested information
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid
Measurement not Supported For	At least one of the concerned cell(s) does not support the requested
The Object	measurement on the concerned object type
Measurement Repetition Rate not Compatible with Current Measurements	The requested parameters for a forwarded UE measurement are not compatible with the current measurement schedule in the SRNC.
Measurement Temporarily not Available	The DRNS can temporarily not provide the requested measurement value
MIMO not available	MIMO resources not available in the concerned cell(s).
MIMO not supported	The concerned cell(s) do not support the MIMO operation
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 DRNC.
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 COMMIT message was received previously, but the concerned CFN has not yet elapsed
Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Requested Configuration not	The concerned cell(s) do not support the requested configuration i.e.
Supported	power levels, Transport Formats, physical channel parameters,
Requested Tx Diversity mode not Supported	The concerned cell(s) do not support the requested transmit diversity mode
RL Already Activated/ Allocated	The DRNS has already allocated an RL with the requested RL ID for this UE Context
Synchronisation Failure	Loss of UL Uu synchronisation
SixteenQAM UL not Supported	The concerned cell(s) do not support the 16 QAM UL
Transaction not Supported by Destination Node B	The requested action cannot be performed due to lack of support of the corresponding action in the destination Node B
UE not Capable to Implement Measurement	The UE is not capable to initiate/report a requested measurement due to its current state or capabilities.
UL Radio Resources not Available	The DRNS does not have sufficient UL radio resources available
UL Scrambling Code Already in Use	The concerned UL scrambling code is already in use for another UE
UL SF not Supported	The concerned cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not Supported	The concerned cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The DRNS is not aware of a cell with the provided C-ID
Unknown RNTI	The SRNC or DRNC is not aware of a UE indicated with the provided RNTI
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 or IE groups in wrong order or with
constructed message)	too many 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	DRNS control processing overload
Hardware Failure	DRNS hardware failure
Not enough User Plane Processing	DRNS has insufficient user plane processing resources available
Resources	
O&M Intervention	Operation and Maintenance intervention related to DRNS 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.

### 9.2.1.5A Cell Geographical Area Identity (Cell GAI)

The Cell Geographical Area is used to identify the geographical area of a cell. The area is represented as a polygon. See ref. [25].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell GAI Geographical Co-ordinates		1 <maxnoofpoints></maxnoofpoints>		
>Latitude Sign	M		ENUMERAT ED(North, South)	
>Degrees of Latitude	M		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° 90°)
>Degrees of Longitude	М		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°)

Range bound	Explanation
maxnoofPoints	Maximum no. of points in polygon.

### 9.2.1.5B Cell Geographical Area Additional Shapes (Cell GAI Additional Shapes)

This IE is used to provide several descriptions of the geographical area of a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cell GAI				
Additional Shapes				
>GA Point With				
Uncertainty				
>>GA Point With	М		9.2.1.30A	Ellipsoid point with
Uncertainty				uncertainty circle
>GA Ellipsoid point				
with uncertainty Ellipse				
>>GA Ellipsoid	M		9.2.1.30B	Ellipsoid point with
point with uncertainty				uncertainty Ellipse
Ellipse				
>GA Ellipsoid point				
with altitude				
>>GA Ellipsoid	M		9.2.1.30C	Ellipsoid point with altitude
point with altitude				
>GA Ellipsoid point				
with altitude and				
uncertainty Ellipsoid				
>>GA Ellipsoid	Μ		9.2.1.30D	Ellipsoid point with altitude
point with altitude				and uncertainty Ellipsoid
and uncertainty				
Ellipsoid				
>GA Ellipsoid Arc				
>>GA Ellipsoid Arc	М		9.2.1.30E	Ellipsoid Arc

### 9.2.1.5C Cell Capacity Class Value

The *Cell Capacity Class Value* IE contains the capacity class for both the uplink and downlink. *Cell Capacity Class Value* IE is the value that classifies the cell capacity with regards to the other cells. *Cell Capacity Class Value* IE only indicates resources that are configured for traffic purposes.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Cell Capacity Class Value	М		INTEGER(1. .100,)	Value 1 shall indicate the minimum uplink cell capacity, and 100 shall indicate the maximum uplink cell capacity. . There should be linear relation between uplink cell capacity and Uplink Cell Capacity Class Value.
Downlink Cell Capacity Class Value	М		INTEGER(1. .100,)	Value 1 shall indicate the minimum downlink cell capacity, and 100 shall indicate the maximum downlink cell capacity. There should be linear relation between downlink cell capacity and Downlink Cell Capacity Class Value.

### 9.2.1.5D Cell Global Identifier (CGI)

The Cell Global Identifier IE contains the Cell Global Identity as defined in ref. [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
LAI		1		
>PLMN Identity	Μ		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	М		OCTET STRING (2)	0000 and FFFE not allowed
CI	М		OCTET STRING (2)	

#### 9.2.1.6 Cell Identifier (C-ID)

The C-ID (Cell Identifier) is the identifier of a cell in one RNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-ID			INTEGER	
			(065535)	

#### 9.2.1.7 Cell Individual Offset

Cell individual offset is an offset that will be applied by UE to the measurement results for a Primary-CPICH[FDD]/ Primary-CCPCH[TDD] or for GSM Carrier RSSI according to [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Individual Offset			INTEGER( -20+20)	-20 -> -10dB -19 -> -9.5dB  +20 -> +10dB

#### 9.2.1.8 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(0. .127,)	

#### 9.2.1.9 CFN

Connection Frame Number for the radio connection, see ref. [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CFN			INTEGER(0. . 255)	

#### 9.2.1.10 CFN Offset

Void

#### 9.2.1.11 CN CS Domain Identifier

Identification of the CN node in the CS Domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	M		OCTET STRING (2)	0000 and FFFE not allowed

#### 9.2.1.11A CN Domain Type

Identifies the type of core network domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CN Domain Type			ENUMERAT ED(CS domain, PS domain, Don't care,)	See in [16]

#### 9.2.1.12 CN PS Domain Identifier

Identification of the CN Node in the PS Domain.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	Μ		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n</li> <li>encoding digit 2n-1</li> <li>bit 8 to 5 of octet n</li> <li>encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
RAC	М		OCTET STRING (1)	

#### 9.2.1.12A 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	М			
>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GPS</sub> Measurement Accuracy Class	М		T <sub>UTRAN-GPS</sub> Accuracy Class 9.2.1.59B	
>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class				
>>T <sub>UTRAN-GANSS</sub> Measurement Accuracy Class	М		T <sub>UTRAN-GANSS</sub> Accuracy Class 9.2.1.112	

# 9.2.1.12B Common Measurement Object Type

Void.

# 9.2.1.12C 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			Reference ENUMERATED (UTRAN GPS Timing of Cell Frames for UE Positioning , SFN-SFN Observed Time Difference, load, transmitted carrier power, received total wide band power, UL timeslot ISCP, , RT Load, NRT Load Information, UpPTS interference, UTRAN GANSS Timing of Cell Frames for UE Positioning)	UL timeslot ISCP shall only be used by TDD. For measurements, which are requested on the lur-g interface, only load, RT Load and NRT Load information are used. "UpPTS interference" is used by 1.28Mcps TDD only "UpPTS interference" means "UpPCH interference" in the whole 25.423, refer to [14] and [22].

# 9.2.1.12D 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				_	
> T <sub>UTRAN-GPS</sub> Measurement Value Information				UTRAN only	-	
>>T <sub>UTRAN-GPS</sub> Measurement Value Information	Μ		9.2.1.59D		_	
> SFN-SFN Measurement Value Information				UTRAN only	_	
>>SFN-SFN Measurement Value Information	M		9.2.1.52C		-	
>Load Value					_	
>>Load Value	М		9.2.1.33A		_	
>Transmitted Carrier Power Value				UTRAN only	-	
>>Transmitted Carrier Power Value	М		Transmitted Carrier Power 9.2.1.59A		_	
>Received Total Wide Band Power Value				UTRAN only	-	
>>Received Total Wide Band Power Value	М		Received Total Wide Band Power 9.2.2.35A		_	
>UL Timeslot ISCP Value				TDD Only	-	
>>UL Timeslot ISCP Value	М		UL Timeslot ISCP 9.2.3.13A		-	
>Additional Common Measurement Values					_	
>>RT Load Value					_	
>>>RT Load Value	М		9.2.1.50B		YES	ignore
>>NRT Load Information Value					_	
>>>NRT Load Information Value	М		9.2.1.411		YES	ignore
>>UpPTS interference				1.28Mcps TDD Only	_	
>>>UpPTS interference Value	М		INTEGER (0127,)	According to mapping in [24]	YES	reject
>> T <sub>UTRAN-GANSS</sub> Measurement Value Information				UTRAN only	-	
>>>T <sub>UTRAN-GANSS</sub> Measurement Value Information	М		9.2.1.114		YES	reject

# 9.2.1.12E 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	М			
>Measurement Available				
>Common Measurement Value	М		9.2.1.12D	
>Measurement not Available			NULL	

#### 9.2.1.12F Common Transport Channel Resources Initialisation Not Required

If present, this IE indicates that as far as the DRNC is concerned, there is no need to initiate a Common Transport Channel Resources Initialisation procedure if the SRNC wants to allocate common transport channel resources in the new cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Transport			ENUMERAT	
Channel Resources			ED(Not	
Initialisation Not Required			Required)	

# 9.2.1.12G Coverage Indicator

The Coverage Indicator indicates whether the serving and the neighbouring cell are overlapped, i.e. the cells have approximately same coverage area or whether the neighbouring cell covers or contained in the serving cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Coverage Indicator			ENUMERAT	
_			ED(Overlap,	
			Covers,	
			Contained	
			in,)	

# 9.2.1.13 Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by an RNC when parts of a received message have not been comprehended or were 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( FDD, TDD, Common)	Common = common to FDD and TDD. Common Ddmode is also applicable for lur- g procedures listed in section 7.	-	
Triggering Message	0		ENUMERATED(i nitiating 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(r eject, ignore, notify)	This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure).	-	
Transaction ID	0		Transaction ID		-	
Information Element Criticality Diagnostics		0 <max noof errors&gt;</max 			_	
>IE Criticality	М		ENUMERATED(r eject, 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(0655 35)	The IE ID of the not understood or missing IE as defined in the ASN.1 part of the specification.	_	
>Repetition Number	0		INTEGER(0255 )	The Repetition Number IE gives • in case of a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence • in case of 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	9.2.1.39A	The Message Structure IE describes the structure in which 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.		

#### 9.2.1.14 C-RNTI

C-RNTI (Cell RNTI) is the UE identifier allocated by the DRNS to be used over the radio interface. It is unique in the cell. One UE Context has one unique C-RNTI value allocated in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
C-RNTI			INTEGER(0. .65535)	

# 9.2.1.14A CTFC

The CTFC is an integer number calculated in accordance with [16], 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				
>2 bits long				
>>CTFC value	Μ		INTEGER (03)	
>4 bits long				
>>CTFC value	Μ		INTEGER (015)	
>6 bits long				
>>CTFC value	Μ		INTEGER (063)	
>8 bits long				
>>CTFC value	Μ		INTEGER (0255)	
>12 bits long				
>>CTFC value	Μ		INTEGER (04095)	
>16 bits long				
>>CTFC value	M		INTEGER (065535)	
>max nb bits long				
>>CTFC value	Μ		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. [16]

#### 9.2.1.15 DCH Combination Indicator

Void

# 9.2.1.16 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)	

# 9.2.1.16A DCH Information Response

The DCH Information 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 <maxno ofDCHs&gt;</maxno 		Several DCHs belonging to the same set of coordinated DCHs may be included.	_	
>DCH ID	М		9.2.1.16		—	
>Binding ID	0		9.2.1.3		_	
>Transport Layer Address	0		9.2.1.62		_	
>Allowed Rate Information	0		9.2.1.2A		YES	ignore
>Transport Bearer Not Setup Indicator	0		9.2.2.4T	FDD Only	YES	Ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

# 9.2.1.17 Dedicated Measurement Object Type

Void.

#### 9.2.1.18 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
Dedicated Measurement Type			ReferenceENUMERATED(SIR, SIRError,TransmittedCode Power,RSCP, RxTimingDeviation,Round TripTime,, RxTimingDeviationLCR, AngleOf ArrivalLCR,HS-SICHReceptionQuality, RxTimingDeviation768, RxTimingDeviation384Extended)	RSCP and HS-SICH Receptions Quality are used by TDD only, Rx Timing Deviation and Rx Timing Deviation 384 Extended are used by 3.84 Mcps TDD only, Rx Timing Deviation LCR is used by 1.28 TDD only, Round Trip Time, SIR Error are used by FDD only. Angle Of Arrival LCR is used by 1.28Mcps TDD only. Rx Timing Deviation 768 is used by 7.68Mcps TDD only.

NOTE: For definitions of the measurement types refer to ref. [11] and [14].

#### 9.2.1.19 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 ref. [23] and [24]	-	
>SIR Error Value				FDD Only	-	
>>SIR Error Value	М		INTEGER( 0125)	According to mapping in [23]	-	
>Transmitted Code Power Value					-	
>>Transmitted Code Power Value	М		INTEGER( 0127)	According to mapping in ref. [23] and [24] Values 0 to 9 and 123 to 127 shall not be used.	I	
>RSCP				TDD Only	_	
>>RSCP	М		INTEGER( 0127)	According to mapping in ref. [24]	-	
>Rx Timing Deviation Value				3.84Mcps TDD Only	-	
>>Rx Timing Deviation	М		INTEGER( 08191)	According to mapping in [24]	-	
>Round Trip Time				FDD Only	_	
>>Round Trip Time	М		INTEGER( 032767)	According to mapping in [23]	-	
>Additional Dedicated Measurement Values					-	
>>Rx Timing Deviation Value LCR				1.28Mcps TDD Only	YES	reject
>>>Rx Timing Deviation LCR	М		INTEGER( 0511)	According to mapping in [24]	-	
>>Angle of Arrival Value LCR				1.28Mcps TDD only	YES	reject
>>>AOA LCR	М		INTEGER( 0719)	According to mapping in [24]	-	
>>>AOA LCR Accuracy Class	M		ENUMER ATED(A, B, C, D, E, F, G, H,)	According to mapping in [24]	-	
>>HS-SICH reception quality				Applicable to TDD only	_	
>>>HS-SICH reception		1			YES	reject
quality Value >>>>Failed HS-SICH	М		INTEGER (020)	According to mapping in [24]	-	
>>>Missed HS-SICH	М		INTEGER (020)	According to mapping in [24]	-	
>>>Total HS-SICH	Μ		INTEGER (020)	According to mapping in [24]	-	
>>Rx Timing Deviation				7.68Mcps	YES	reject

Value 7.68Mcps			TDD Only		
>>>Rx Timing Deviation 7.68Mcps	М	INTEGER( 065535)	According to mapping in [24]	-	
>>Rx Timing Deviation Value 3.84Mcps Extended			3.84 Mcps TDD Only	YES	reject
>>>Rx Timing Deviation 3.84Mcps Extended	М	INTEGER( 032767)	According to mapping in [24]	-	
>>Extended Round Trip Time			FDD Only	YES	ignore
>>>Extended Round Trip Time Value	М	INTEGER (3276710 3041)	Continuation of intervals with step size as defined in [23].	_	

#### 9.2.1.19A 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 and if provided also the Dedicated Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Measurement Availability Indicator	М				-	
>Measurement Available					-	
>>Dedicated Measurement Value	М		9.2.1.19		-	
>>CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	_	
>Measurement not Available			NULL		_	

# 9.2.1.19Aa 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	Μ		CFN 9.2.1.7	
> Separate Indication			NULL	

# 9.2.1.19Ab Delayed Activation Update

The Delayed Activation Update IE indicates a change of the activation of the DL power for a specific RL.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Delayed Activation Update	М			
> Activate				
>> CHOICE Activation Type	М			
>>> Synchronised				
>>>> Activation CFN	Μ		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 Propagation	0		9.2.2.33a	FDD Only
Delay				
> Deactivate				
>> CHOICE Deactivation type	Μ			
>>> Synchronised				
>>>> Deactivation CFN	Μ		CFN 9.2.1.7	
>>> Unsynchronised			NULL	

# 9.2.1.19B 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 [31].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GPS TOW	М		INTEGER(0. .604799)	Time in seconds. This field indicates the baseline time for which the corrections are valid
Status/Health	М		ENUMERAT ED (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 DGPS Corrections Information		1 <maxnosat></maxnosat>		
>SatID	М		SAT ID 9.2.1.50A	
>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	M		ENUMERAT ED (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)	Scaling factor 0.32 meters
>Range Correction Rate	М		INTEGER(- 127 127)	Scaling factor 0.032 m/s

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be
	provided

#### 9.2.1.19C 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 DRNS shall use this information to discard out-of-date MAC-hs SDUs from the HSDPA Priority Queues.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Discard Timer			ENUMERAT	Unit: ms
			ED (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,	
			)	

#### 9.2.1.20 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			ENUMERAT ED(May, Must, Must not, )	

#### 9.2.1.21 Diversity Indication

Void.

#### 9.2.1.21A DL Power

The *DL Power* IE indicates a power level relative to 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. If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.] 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.

[TDD - If referred to a DPCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher.]

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 Step 0.1dB

#### 9.2.1.22 Downlink SIR Target

Void

#### 9.2.1.23 DPCH Constant Value

DPCH Constant Value is the power margin used by a UE to set the proper uplink power.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPCH Constant Value			INTEGER (-	Unit dB
			1010)	Granularity 1 dB.

#### 9.2.1.24 D-RNTI

The D-RNTI identifies the UE Context in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
D-RNTI			INTEGER(0. .2^20 –1)	

#### 9.2.1.25 D-RNTI Release Indication

The D-RNTI Release Indication indicates whether or not a DRNC shall release the D-RNTI allocated for a particular UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
D-RNTI Release Indication			ENUMERAT	
			ED(Release D-RNTI, not	
			Release	
			D-RNTI)	

# 9.2.1.26 DRX Cycle Length Coefficient

The DRX Cycle Length Coefficient is used as input for the formula to establish the paging occasions to be used in DRX.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRX Cycle Length			INTEGER	Refers to 'k' in the formula as
Coefficient			(39)	specified in ref. [15],
				Discontinuous Reception.

#### 9.2.1.26A DSCH ID

Void.

9.2.1.26Aa DSCH Initial Window Size

Void.

9.2.1.26B DSCH Flow Control Information

Void.

#### 9.2.1.26Ba DSCH-RNTI

Void.

# 9.2.1.26Bb Extended GSM Cell Individual Offset

Extended GSM Cell individual offset is an offset that will be applied by UE to the measurement results for GSM carrier RSSI according to [16]. It shall be used when the offset exceeds the range of values that can be indicated using the *Cell Individual Offset* IE (Subclause 9.2.1.7).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended GSM Cell Individual Offset			INTEGER (- 5011   1150)	Unit in dB. Step size is 1 dB.
			1150)	

# 9.2.1.26C FACH Flow Control Information

The FACH Flow Control Information IE provides flow control information for each scheduling priority class for the FACH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FACH Flow Control Information		116			_	
>FACH Scheduling Priority	М		Scheduling Priority Indicator 9.2.1.51A		_	
>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength&gt;</maxnb 			-	
>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>FACH Initial Window Size	М		9.2.1.27		—	

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

# 9.2.1.27 FACH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before an acknowledgement is received from the DRNC.

IE/Group N	lame Pre	sence	Range	IE Type and Reference	Semantics Description
FACH Initial Wind	low Size			INTEGER(0. .255)	Number of frames (MAC-c/sh SDUs.) 255 = Unlimited number of FACH data frames.

# 9.2.1.28 FACH Priority Indicator

Void

#### 9.2.1.28A FN Reporting Indicator

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			ENUMERAT ED(FN	
			reporting required, FN	
			reporting not required)	

#### 9.2.1.29 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,
			(0.110)	15=Highest Priority

#### 9.2.1.30 Frame Offset

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 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

# 9.2.1.30A GA Point with Uncertainty

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	Μ		9.2.1.30F	
Uncertainty Code	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$

#### 9.2.1.30B GA Ellipsoid Point with Uncertainty Ellipse

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Uncertainty Ellipse	М		9.2.1.68A	
Confidence	М		INTEGER(	
			0127)	

# 9.2.1.30C GA Ellipsoid Point with Altitude

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	

# 9.2.1.30D GA Ellipsoid Point with Altitude and Uncertainty Ellipsoid

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	
Uncertainty Ellipse	М		9.2.1.68A	
Uncertainty Altitude	М		INTEGER(	
			0127)	
Confidence	М		INTEGER(	
			0127)	

# 9.2.1.30E GA Ellipsoid Arc

This IE contains one of the possible descriptions of a Cell Geographical Area.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Geographical Coordinates	М		9.2.1.30F	
Inner radius	Μ		INTEGER( 02 <sup>16</sup> -1)	The relation between the value (N) and the radius (r) in meters it describes is $5N \le r < 5(N+1)$ , except for $N=2^{16}-1$ for which the range is extended to include all grater values of (r).
Uncertainty radius	М		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Offset angle	М		INTEGER( 0179)	The relation between the value (N) and the angle (a) in degrees it describes is $2N \le a < 2(N+1)$
Included angle	М		INTEGER( 0179)	The relation between the value (N) and the angle (a) in degrees it describes is $2N < a \le 2(N+1)$
Confidence	М		INTEGER( 0127)	

# 9.2.1.30F Geographical Coordinates

This IE contains the description of geographical coordinates.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERAT ED(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° 90°)
Degrees Of Longitude	М		INTEGER( -2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{2^4} X / 360 < N+1$ X being the longitude in degree (-180°+180°)

# 9.2.1.30Fa GERAN Cell Capability

The GERAN Cell Capability IE is used to transfer the capabilities of a certain GERAN cell via the Iur interface.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
GERAN Cell Capability	Μ		BIT STRING (16)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: A/Gb mode. The second bit: lu mode. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

# 9.2.1.30Fb GERAN Classmark

The *GERAN Classmark* IE is used to transfer the capabilities of a certain GERAN Iu-mode capable cell via the Iur interface.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
GERAN Classmark	М		OCTET STRING	Contents defined in [38]

# 9.2.1.30Fc GERAN System Information

The GERAN System Information IE provides GERAN specific information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GERAN System Info		1 <maxnrofger ANSI&gt;</maxnrofger 		
>GERAN System Info Block	М		OCTET STRING (123)	The first octet contains octet 1 of the GERAN system information block, the

	second octet contains octet 2 of the GERAN system information block and so on.
--	--

Range bound	Explanation
maxNrOfGERANSI	Maximum number of GERAN SI blocks that can be provided as part of NACC information

#### 9.2.1.30G GPS Almanac

This IE provides the information regarding the GPS Almanac. For further details on the meaning of parameters, see [30].

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
WNa	М		BIT STRING(8)	
Satellite Almanac Information	М	1 <maxno OfSatAlma nac&gt;</maxno 		See Note 1.
>DataID	М		INTEGER (03)	
>SatID	М		SAT ID 9.2.1.50A	
>e	М		BIT STRING(16)	
>t <sub>oa</sub>	М		BIT STRING(8)	
<b>&gt;δ</b> i	М		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>	М		BIT STRING(24)	
>M <sub>0</sub>	М		BIT STRING(24)	
>0)	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.

# 9.2.1.30H GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see [30].

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
αο	M		BIT	
			STRING(8)	
α	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)	

# 9.2.1.30I GPS Navigation Model and Time Recovery

This IE contains subframes 1 to 3 of the GPS navigation message. For further details on the meaning of parameters, see [30].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Navigation Message 1to3		1 <maxnosat></maxnosat>		
>Transmission TOW	М		INTEGER0	Time of the Week when the
			1048575)	message is broadcast.
>SatID	Μ		SAT ID	
	Μ		9.2.1.50A BIT	
>TLM Message	IVI		STRING(14)	
>TIm Revd (C)	M		BIT	
			STRING(2)	
>HO-Word	М		BIT	
			STRING(22)	
>WN	М		BIT	
			STRING(10)	
>C/A or P on L2	М		BIT	
			STRING(2)	
>User Range Accuracy	М		BIT	
Index			STRING(4)	
>SV Health	М		BIT	
			STRING(6)	
>IODC	Μ		BIT	
			STRING(10)	
>L2 P Data Flag	М		BIT	
>SF 1 Reserved	M		STRING(1) BIT	
>SF I Reserved	IVI		STRING(87)	
>T <sub>GD</sub>	M		BIT	
> I GD	IVI		STRING(8)	
>t <sub>oc</sub>	М		BIT	
- toc	101		STRING(16)	
>af <sub>2</sub>	М		BIT	
			STRING(8)	
>af <sub>1</sub>	М		BIT	
			STRING(16)	
>af <sub>0</sub>	М		BIT	
			STRING(22)	
>C <sub>rs</sub>	М		BIT	
			STRING(16)	
>∆n	М		BIT	
			STRING(16)	
>M <sub>0</sub>	Μ		BIT	
	Μ		STRING(32)	
>C <sub>uc</sub>	IVI		BIT STRING(16)	
>e	M		BIT	
~6			STRING(32)	
>C <sub>us</sub>	М		BIT	
- Jus	···		STRING(16)	
>(A) <sup>1/2</sup>	М		BIT	
、 /			STRING(32)	
>t <sub>oe</sub>	М		BIT	
			STRING(16)	
>Fit Interval Flag	М		BIT	
			STRING(1)	
>AODO	М		BIT	
<u>^</u>			STRING(5)	
>C <sub>ic</sub>	Μ		BIT	
011504			STRING(16)	
>OMEGA <sub>0</sub>	М		BIT STRING(22)	
<u> </u>	M		STRING(32) BIT	
>C <sub>is</sub>	IVI		STRING(16)	
>i <sub>0</sub>	Μ		BIT	
~ IU			STRING(32)	
>C <sub>rc</sub>	M		BIT	
			STRING(16)	

>00	М	BIT
		STRING(32)
>OMEGAdot	M	BIT
		STRING(24)
>ldot	M	BIT
		STRING(14)
>Spare/zero fill	M	BIT
		STRING(20)

Range Bound	Explanation
maxNoSat	Maximum number of satellites for which information can be
	provided

#### 9.2.1.30J 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 [30].

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Bad Satellites Presence	Μ			
>Bad Satellites				
>>Satellite Information		1 <maxn oSat&gt;</maxn 		
>>>BadSatID	М		SAT ID 9.2.1.50A	
>No Bad Satellites			NULL	

Range Bound	Explanation
MaxNoSat	Maximum number of satellites for which information can be
	provided

# 9.2.1.30K 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
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	М		9.2.1.2B	

#### 9.2.1.30L GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see [30].

IE/Group name	Presence	Range	IE Type and	Semantics Description
			Reference	
A <sub>1</sub>	Μ		BIT	
			STRING(24)	
A <sub>0</sub>	Μ		BIT	
			STRING(32)	
t <sub>ot</sub>	Μ		BIT	
			STRING(8)	
$\Delta t_{LS}$	Μ		BIT	
			STRING(8)	
WNt	М		BIT	
			STRING(8)	
WN <sub>LSF</sub>	Μ		BIT	
			STRING(8)	
DN	М		BIT	
			STRING(8)	
$\Delta t_{LSF}$	Μ		BIT	
			STRING(8)	

#### 9.2.1.30M Guaranteed Rate Information

The *Guaranteed Rate Information* IE indicates the TFI corresponding to the guaranteed bit rate for the uplink and/or the downlink of a DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Guaranteed UL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, 
Guaranteed DL Rate	0		INTEGER(1. .maxTFcount )	"1": TFI 0, "2": TFI 1, "3": TFI 2, 

# 9.2.1.30N HCS Prio

The HCS Prio is the characteristics of the cell as defined in [15].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HCS Prio			INTEGER (07)	0=Lowest Priority,
			· · ·	7=Highest Priority

# 9.2.1.30NA HS-DSCH Information To Modify Unsynchronised

The *HS-DSCH Information To Modify Unsynchronised* IE is used for modification of HS-DSCH information in a UE 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 <max noofMA CdFlow s&gt;</max 		200011011	_	
>HS-DSCH MAC-d Flow ID	Μ		9.2.1.300		_	
>Allocation/Retention Priority	0		9.2.1.1		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>Traffic Class	0		9.2.1.58A		-	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxn oofPrioQ ueues&gt;</maxn 			-	
>Priority Queue ID	М		9.2.1.45A		_	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>Discard Timer	0		9.2.1.19C		_	
>MAC-hs Guaranteed Bit Rate	0		9.2.1.34Aa		-	
CQI Power Offset	0		9.2.2.24b	For FDD only	_	
ACK Power Offset	0	1	9.2.2.b	For FDD only	-	1
NACK Power Offset	0	1	9.2.2.26a	For FDD only	-	1
HS-SCCH Power Offset	0	1	9.2.2.19d	For FDD only	-	1
TDD ACK NACK Power Offset	0		9.2.3.71	For TDD only	_	
HARQ Preamble Mode	0		9.2.2.57	For FDD only	YES	ignore
MIMO Mode Indicator	0		9.2.2.77	For FDD only	YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For FDD only	YES	ignore

# 9.2.1.30Na 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 Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH Initial Capacity Allocation		1< maxnoof PrioQueu es>			_	
>Scheduling Priority Indicator	М		9.2.1.51A		-	
>Maximum MAC-d PDU Size	М		MAC-d PDU Size 9.2.1.34A	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		9.2.1.30Nb		-	
>Maximum MAC-d PDU Size Extended	0		MAC PDU Size Extended 9.2.1.34D		YES	ignore

Range Bound	Explanation
maxnoofPrioQueuess	Maximum number of Priority Queues

# 9.2.1.30Nb 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 DRNC.

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

#### 9.2.1.300 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)	

# 9.2.1.30OA 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 UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		1 <max noofMA CdFlow s&gt;</max 			_	

			-			I
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		_	
>Allocation/Retention Priority	М		9.2.1.1		_	
>Traffic Class	M		9.2.1.58A		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>TrCH Source Statistics Descriptor	0		9.2.1.65		YES	ignore
Priority Queue Information		1 <maxn oofPrioQ ueues&gt;</maxn 			-	
>Priority Queue ID	М		9.2.1.45A		1	
>Associated HS-DSCH MAC-d Flow	M		HS-DSCH MAC-d Flow ID 9.2.1.300	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.	_	
>Scheduling Priority Indicator	Μ		9.2.1.51A		_	
>T1	М		9.2.1.54A		_	
>Discard Timer	0		9.2.1.19C		_	
>MAC-hs Window Size	М		9.2.1.34C		-	
>MAC-hs Guaranteed Bit Rate	0		9.2.1.34Aa		_	
>MAC-d PDU Size Index		1 <maxn oofMACd PDUinde xes&gt;</maxn 			_	
>>SID	M		9.2.1.52D	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size extended</i> IE is present.	_	
>>MAC-d PDU Size	M		9.2.1.34A	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size extended</i> IE is present.	-	
>RLC Mode	M		9.2.1.48D		-	
>Maximum MAC-d PDU Size extended	0		MAC PDU Size		YES	reject

	Extended 9.2.1.34D
--	-----------------------

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

# 9.2.1.30OB 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 UE 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		9.2.1.300	

Range Bound	Explanation
maxnoofMACdFlows	Maximum number of HS-DSCH MAC-d flows

#### 9.2.1.30OC 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* IIE of *MAC-d PDU Size* IIE of *MAC-d PDU Size* IIE of *MAC-d 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 [32] and [41].

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)	

# 9.2.1.30Oa 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 [42].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH Physical Layer Category			INTEGER (164,)	

#### 9.2.1.30P HS-DSCH-RNTI

The HS-DSCH-RNTI is needed 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)	

# 9.2.1.30Q HS-DSCH Information To Modify

The HS-DSCH Information To Modify IE is used for modification of HS-DSCH information in a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information		0 <maxn oofMACd Flows&gt;</maxn 			-	
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		-	
>Allocation/Retention Priority	0		9.2.1.1		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
>Traffic Class	0		9.2.1.58A		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
Priority Queue Information		0 <maxn oofPrioQ ueues&gt;</maxn 			_	
>CHOICE Priority Queue	М				_	
>>Add Priority Queue					-	
>>>Priority Queue ID	М		9.2.1.45A		_	
>>>Associated HS-DSCH MAC-d Flow >>>Scheduling Priority	M		HS-DSCH MAC-d Flow ID 9.2.1.300 9.2.1.51A	Shall only refer to a 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.	_	
Indicator					_	
>>>T1	M		9.2.1.54A		_	
>>>Discard Timer	0		9.2.1.19C		-	
>>>MAC-hs Window Size >>>MAC-hs Guaranteed	M O		9.2.1.34C 9.2.1.34Aa		-	
Bit Rate >>>MAC-d PDU Size Index		1 <maxn oofMACd PDUinde xes&gt;</maxn 			_	
>>>>SID	М		9.2.1.52D	Shall be ignored if <i>Maximum</i> <i>MAC-d PDU</i> <i>Size extended</i> IE is present.	-	
>>>>MAC-d PDU Size	M		9.2.1.34A	Shall be ignored if	-	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
				Maximum		
				MAC-d PDU		
				Size extended		
N N DI C Mada	M		0.0.1.49D	IE is present.		
>>>RLC Mode >>>Maximum MAC-d	M O		9.2.1.48D MAC PDU		_ YES	reject
PDU Size extended	0		Size		TES	reject
T DO SIZE extended			Extended			
			9.2.1.34D			
>>Modify Priority Queue					_	
>>>Priority Queue ID	М		9.2.1.45A	Shall only	_	
-				refer to a		
				Priority Queue		
				already		
				existing in the		
				old		
Cohoduling Drighty	0		0.04.544	configuration.		
>>Scheduling Priority Indicator	0		9.2.1.51A		-	
>>>T1	0		9.2.1.54A		_	
>>>Discard Timer	0	1	9.2.1.19C		_	
>>>MAC-hs Window Size	0		9.2.1.34C		_	
>>>MAC-hs Guaranteed	0		9.2.1.34Aa		_	
Bit Rate	-					
>>>MAC-d PDU Size		0 <maxn< td=""><td></td><td></td><td>_</td><td></td></maxn<>			_	
Index		oofMACd				
		PDUinde				
		xes>				
>>>SID	М		9.2.1.52D	Shall be	-	
				ignored if		
				Maximum		
				MAC-d PDU Size extended		
				IE is present.		
>>>MAC-d PDU Size	М		9.2.1.34A	Shall be		
	101		0.2.1.04/	ignored if		
				Maximum		
				MAC-d PDU		
				Size extended		
				IE is present.		
>>>Maximum MAC-d	0		MAC PDU		YES	reject
PDU Size extended			Size			
			Extended			
> Doloto Brigrity Qualla			9.2.1.34D			
>>Delete Priority Queue >>>Priority Queue ID	М		9.2.1.45A	Shall only	_	
			3.2.1.40A	refer to a	_	
		1		Priority Queue		
				already		
				already existing in the		
MAC-hs Reordering Buffer Size	0		9.2.1.34Ab	already existing in the old	_	
for RLC-UM				already existing in the old configuration.	_	
for RLC-UM CQI Feedback Cycle k	0		9.2.2.24a	already existing in the old configuration. For FDD only	-	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor	0		9.2.2.24a 9.2.2.24c	already existing in the old configuration. For FDD only For FDD only	-	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor	0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a	already existing in the old configuration. For FDD only For FDD only For FDD only	-	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor CQI Power Offset	0 0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a 9.2.2.24b	already existing in the old configuration. For FDD only For FDD only For FDD only For FDD only	-	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor CQI Power Offset ACK Power Offset	0 0 0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a 9.2.2.24b 9.2.2.24b 9.2.2.2b	already existing in the old configuration. For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only	- - - -	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor CQI Power Offset ACK Power Offset NACK Power Offset	0 0 0 0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a 9.2.2.24b 9.2.2.24b 9.2.2.b 9.2.2.26a	already existing in the old configuration. For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only	- - - - -	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor CQI Power Offset ACK Power Offset NACK Power Offset HS-SCCH Power Offset	0 0 0 0 0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a 9.2.2.24b 9.2.2.24b 9.2.2.b 9.2.2.26a 9.2.2.26a 9.2.2.19d	already existing in the old configuration. For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only	- - - -	
for RLC-UM CQI Feedback Cycle k CQI Repetition Factor ACK-NACK Repetition Factor CQI Power Offset ACK Power Offset NACK Power Offset	0 0 0 0 0 0		9.2.2.24a 9.2.2.24c 9.2.2.a 9.2.2.24b 9.2.2.24b 9.2.2.b 9.2.2.26a	already existing in the old configuration. For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only For FDD only	- - - - -	

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-PDSCH Code Change Grant	0		9.2.1.30W	For FDD only	YES	ignore
MIMO Mode Indicator	0		9.2.2.77	For FDD only	YES	reject
HS-DSCH MAC-d PDU Size Format	0		9.2.1.300 C		YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A	For FDD only	YES	ignore
UE Capabilities Information	0			For FDD only	YES	ignore
>HS-DSCH Physical Layer Category	Μ		9.2.1.30O a		-	
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	Applicable to 1.28Mcps TDD only	YES	ignore
>Number of Supported Carriers	0		ENUMER ATED ( One-one carrier, One-three carrier, Three- three carrier, One-six carrier, Tree-six carrier, Six-six carrier,)	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

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofPrioQueues	Maximum number of Priority Queues.
maxnoofMACdPDUindexes	Maximum number of MAC-d PDU Size Indexes
	(SIDs).

# 9.2.1.30R 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			ENUMERAT ED (HS- SCCH Code	
			Change needed)	

# 9.2.1.30S 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			ENUMERAT	
Grant			ED(Change	
			Granted)	

#### 9.2.1.30T IMEI

The IMEI is a permanent UE Equipment Identity, see ref. [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMEI			OCTET STRING (SIZE (8))	<ul> <li>hexadecimal digits 0 to F, two hexadecimal digits per octet,</li> <li>each hexadecimal digit encoded 0000 to 1111,</li> <li>1111 used as filler for bits 8 to 5 of last octet</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> </ul>
				Number of hexadecimal digits shall be 15.

#### 9.2.1.30U IMEISV

The IMEISV is a permanent UE Equipment Identity, see ref. [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMEISV			OCTET STRING (SIZE (8))	<ul> <li>hexadecimal digits 0 to F, two hexadecimal digits per octet,</li> <li>each hexadecimal digit encoded 0000 to 1111,</li> <li>1111 used as filler for bits 8 to 5 of last octet</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> </ul>
				Number of hexadecimal digits shall be 16.

#### 9.2.1.30V 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			ENUMERATED (HS-	
Indicator			PDSCH Code	
			Change needed)	

# 9.2.1.30W 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(Chan ge Granted)	

# 9.2.1.31 IMSI

The IMSI is the permanent UE user Identity, see ref. [1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IMSI			OCTET STRING (SIZE(38))	-Decimal digits coded in BCD -"1111" used as filler -bit 4 to 1 of octet n is encoding digit 2n-1 -bit 8 to 5 of octet n is encoding digit 2n

#### 9.2.1.31A Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per RNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Information Exchange ID	М		INTEGER(0 2^20-1)	

#### 9.2.1.31B Information Exchange Object Type

Void.

#### 9.2.1.31C Information Report Characteristics

The information report characteristics define 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 >Periodic			NULL	
>>CHOICE Information Report Periodicity Scale	М			The frequency with which the Node B shall send information reports.
>>>minute				
>>>Report Periodicity Value	Μ		INTEGER (160,)	
>>>hour				
>>>Report Periodicity Value	Μ		INTEGER (124,)	
>On Modification				
>>Information Threshold	0		9.2.1.31D	

# 9.2.1.31D 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	Criticality	Assigned Criticality
CHOICE Information Type Item	Μ				-	
>DGPS Corrections						
>>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	_	

# 9.2.1.31E Information Type

The Information Type indicates which kind of information the RNS shall provide.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Information Type	М		ENUMERATED	For information	_	Unitedity
Item			(UTRAN Access	exchange on the lur-g		
			Point Position	interface, only the Cell		
			with Altitude,	Capacity Class is		
			UTRAN Access	used.		
			Point Position,	useu.		
			IPDL			
			Parameters,			
			GPS Information,			
			DGPS			
			Corrections,			
			GPS RX Pos,			
			SFN-SFN			
			Measurement			
			Reference Point			
			Position,, Cell			
			Capacity Class,			
			NACC Related			
			Data, MBMS			
			Bearer Service			
			Full Address,			
			Inter-frequency			
			Cell Information,			
			GANSS			
			Information,			
			DGANSS			
			Corrections,			
			GANSS RX Pos)			
GPS Information	C-GPS	1 <maxn< td=""><td></td><td></td><td>_</td><td></td></maxn<>			_	
		oofGPST				
		ypes>				
>GPS Information			ENUMERATED		-	
Item			(GPS Navigation			
			Model and Time			
			Recovery,			
			GPS Ionospheric			
			Model,			
			GPS UTC			
			Model.			
			GPS Almanac,			
			GPS Real-Time			
			Integrity,			
			)			
GANSS Information	C-GANSS		,		YES	Ignore
>GANSS		01				
Common Data						
>>lonospheric	0		BOOLEAN	True means	_	
Model				requested		
>GANSS Generic		0 <maxn< td=""><td></td><td></td><td>_</td><td></td></maxn<>			_	
Data		oofGANS				
	_	S>				
>>GANSS ID	0		9.2.1.119		-	
>>GANSS	0		BOOLEAN	True means	—	
Navigation				requested		
Model And Time						
Recovery						
>>GANSS Time	0		BIT STRING(9)	Defines the time	-	
Model GNSS-				model required.		
GNSS						
				Bit 1 is the MSB and		
				bit 9 is the LSB (see		
				section 9.2.0).		
				Bit 1:GPS,		
				Bit 2:Galileo		
				Other bits are		
	L	1	1			1

				reserved.		
>>GANSS UTC	0		BOOLEAN	True means	_	
Model				requested		
>>GANSS	0		BOOLEAN	True means	_	
Almanac				requested		
>>GANSS Real	0		BOOLEAN	True means	_	
Time Integrity				requested		
>>GANSS Data		01			-	
Bit Assistance						
>>>GANSS	М		INTEGER	The GANSS Time Of	-	
TOD			(086399)	Day for which the		
				data bits are		
				requested		
>>>Data Bit		1			_	
Assistance						
>>>>DGANS	М		BIT STRING(8)	Defined in [16]	-	
S Signal ID						
>>>>GANSS	М		INTEGER (015)	Defined in [16]	-	
Data Bit						
Interval						
>>>Satellite		0 <max< td=""><td></td><td></td><td>-</td><td></td></max<>			-	
Information		GANSS				
		Sat>				
>>>Sat ID	М		INTEGER(063)	Identifies the satellite	_	
				and is equal to (SV ID		
				No - 1)		
DGANSS	C-	1			YES	ignore
Corrections Req	DGANSS					
	Correction					
	S					
>DGANSS Signal	M		BIT STRING(8)	Defined in [16]	—	
ID						

Condition	Explanation
DGANSSCorrections	The IE shall be present if the Information Type Item IE
	indicates "DGANSS Corrections".
GPS	This IE shall be present if the Information Type Item IE
	indicates "GPS Information".
GANSS	This IE shall be present if the Information Type Item IE
	indicates "GANSS Information".

Range Bound	Explanation
maxGANSSSat	Maximum number of satellites for which data is included in the
	IE
maxnoofGPSTypes	Maximum number of GPS Information Types supported in one
	Information Exchange.
maxnoofGANSS	Maximum number of GANSS Systems.

# 9.2.1.31F IPDL Parameters

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE IPDL Parameters					-	
>IPDL FDD Parameters						
>>IPDL FDD parameters	М		9.2.2.21B		-	
>IPDL TDD Parameters				Applicable to 3.84Mcps TDD and 7.68Mcps TDD only		
>>IPDL TDD parameters	М		9.2.3.4B		-	
>Additional IPDL Parameters						
>>IPDL TDD Parameters LCR				Applicable to 1.28Mcps TDD only	_	
>>>IPDL TDD parameters LCR	М		9.2.3.4Bb		YES	reject

# 9.2.1.31G Inter-frequency Cell Information

This IE contains the inter-frequency cell information of a cell in the DRNS broadcased in SIB11 or SIB12.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIB11		02		
>Inter-frequency Cell Indication- SIB11	М		Integer(01)	Value tag in 10.3.7.45 in [16] with the same IE name.
>Inter-frequency Cell List in SIB11		0 <maxcellsib11 OrSIB12&gt;</maxcellsib11 		
>>Inter-frequency Cell Id	М		Integer(031)	The order of the inter- frequency cell in SIB11.
>>DL UARFCN	М		UARFCN 9.2.1.66	
>>UL UARFCN	0		UARFCN 9.2.1.66	If this IE is not present, the default duplex distance defined for the operating frequency band shall be used [43]
>>Primary Scrambling Code	М		9.2.1.45	
SIB12		02		
>Inter-frequency Cell Indication- SIB12	М			Value tag in 10.3.7.45 in [16] with the same IE name.
>Inter-frequency Cell List in SIB12		0 <maxcellsib11 OrSIB12&gt;</maxcellsib11 		
>>Inter-frequency Cell Id			Integer(031)	The order of the inter- frequency cell in SIB12.
>>DL UARFCN	М		UARFCN 9.2.1.66	
>>UL UARFCN	0		UARFCN 9.2.1.66	If this IE is not present, the default duplex distance defined for the operating frequency band shall be used [43]
>>Primary Scrambling Code	М		9.2.1.45	

Range bound	Explanation
maxCellSIB11OrSIB12	Maximum number of inter-frequency cells broadcased in SIB11 or SIB12.

#### 9.2.1.32 L3 Information

This parameter contains the Layer 3 Information from a Uu message as received from the UE over the Uu interface or the Layer 3 Information for a Uu message to be sent to a UE by the DRNC, as defined in ref. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
L3 Information			BIT STRING	The content is defined in ref. [16]

#### 9.2.1.33 Limited Power Increase

Void.

#### 9.2.1.33A Load Value

The *Load Value* IE contains the total load on the measured object relative to the maximum planned load for both the uplink and downlink. It is defined as the load percentage of the Cell Capacity Class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink Load Value	М		INTEGER(0. .100)	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Load should be measured on a linear scale.
Downlink Load Value	М		INTEGER(0. .100)	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Load should be measured on a linear scale.

## 9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, [TDD - DSCH and USCH]. There may be multiple MAC-c/sh SDU Lengths per priority class.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MAC-c/sh SDU Length			INTEGER(1. .5000)	Size of the MAC-c/sh SDU in number of bits.

#### 9.2.1.34A MAC-d PDU Size

The MAC-d PDU Size IE 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.

## 9.2.1.34Aa 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			INTEGER	Unit: bit/s
Rate			(02^24-1,,	
			2^24256,000,	
			000)	

## 9.2.1.34Ab 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 for RLC-UM			INTEGER (0300,)	Unit: kBytes And N kBytes = N*1024 Bytes. The D R N S shall use this value to avoid the overflow of the UE buffer.

## 9.2.1.34B 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)	

## 9.2.1.34C MAC-hs Window Size

The MAC-hs Window Size IE is used for MAC-hs PDU retransmission as defined in [41].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-hs Window Size			ENUMERAT ED (4, 6, 8, 12, 16, 24, 32,)	

## 9.2.1.34D 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,)	

## 9.2.1.35 Maximum Allowed UL Tx Power

Maximum Allowed UL Tx Power is the maximum power that a UE in a particular cell is allowed to transmit.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Allowed UL Tx			INTEGER(-	dBm
Power			50+33)	

#### 9.2.1.35A Measurement Availability Indicator

Void

#### 9.2.1.35B Measurement Change Time

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Change Time	М		INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms

#### 9.2.1.36 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			ENUMERAT	
Coefficient			ED(0, 1, 2,	
			3, 4, 5, 6, 7,	
			8, 9, 11, 13,	
			15, 17,	
			19,)	

## 9.2.1.36A 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
Measurement Hysteresis Time			INTEGER	Unit: ms
			(16000,)	Range: 1060000 ms
				Step: 10 ms

#### 9.2.1.37 Measurement ID

The Measurement ID uniquely identifies a dedicated measurement within a UE Context or a common measurement within a Distant RNC Context [TDD – or a UE measurement within a UE Context].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			INTEGER(0 2^20-1)	

## 9.2.1.38 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 >SIR	М				_	
>>SIR	М		INTEGER(062)	0: 0 dB 1: 0.5 dB 2: 1 dB  62: 31dB	_	
>SIR Error				FDD Only		
>>SIR Error	М		INTEGER(0124 )	0: 0 dB 1: 0.5 dB 2: 1 dB  124: 62 dB	_	
>Transmitted Code Power				124.02 00		
>>Transmitted Code Power	М		INTEGER(0112 ,)	0: 0 dB 1: 0.5 dB 2: 1 dB	_	
>RSCP				112: 56 dB		
>>RSCP >>RSCP	М		INTEGER(0126)	TDD Only 0: 0 dB 1: 0.5 dB 2: 1 dB 	-	
				126: 63 dB		
>Round Trip Time				FDD Only		
>>Round Trip Time	Μ		INTEGER(0327 66)	0: 0 chips 1: 0.0625 chips 2: 0.1250 chips  32766: 2047.875 chips	_	
>Additional Measurement Thresholds						
>>Load >>>Load	Μ		INTEGER(0100 )	Units are the same as for the Uplink <i>Load</i> <i>Value</i> IE and <i>Downlink Load Value</i> IE.	_	
>>Transmitted Carrier Power						
>>>Transmitted Carrier Power	Μ		INTEGER(0100)	According to mapping in [23] and [24].	YES	reject
>>Received Total Wide Band Power						
>>>Received Total Wide Band Power	М		INTEGER(0620 )	0: 0dB 1: 0.1dB 2: 0.2dB	YES	reject
>>UL Timeslot				 620: 62dB TDD Only		
ISCP	N4					• •
>>>UL Timeslot ISCP	Μ		INTEGER(0126 )	0: 0dB 1: 0.5dB 2: 1dB 	YES	reject
		1	1	126: 63dB	1	1

>>>RT Load	M	INTEGER(0100 )	Units are the same as for the Uplink RT Load Value IE and Downlink RT Load Value IE.	YES	reject
>>NRT Load Information					
>>>NRT Load Information	М	INTEGER(03)		YES	reject
>>UpPTS interference			1.28Mcps TDD Only		
>>>UpPTS interference Value	М	INTEGER (0127,)	According to mapping in [24]	YES	reject

#### 9.2.1.38A 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	

#### 9.2.1.38B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement Recovery Reporting Indicator			NULL	

## 9.2.1.38C 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	

## 9.2.1.39 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		
CHOICE Measurement Threshold					-	Criticality
>SIR						
>>SIR	М		INTEGER(063)	According to mapping in ref. [23] and [24].	-	
>SIR Error				FDD Only		
>>SIR Error	М		INTEGER(0125 )	According to mapping in [23]	-	
>Transmitted Carrier Power						
>>Transmitted Code Power	М		INTEGER(0127 )	According to mapping in ref. [23] and [24].	-	
>RSCP				TDD Only		
>>RSCP	М		INTEGER(0127 )	According to mapping in ref. [24]	-	
>Rx Timing Deviation				Applicable to 3.84Mcps TDD Only		
>>Rx Timing Deviation	М		INTEGER(0819 1)	According to mapping in [24]	-	
>Round Trip Time				FDD Only		
>>Round Trip Time	М		INTEGER(0327 67)	According to mapping in [23]	-	
>Additional Measurement Thresholds						
>>T <sub>UTRAN-GPS</sub> Measurement Threshold Information						
>>>T <sub>UTRAN-GPS</sub> Measurement Threshold Information	М		9.2.1.59C		YES	reject
>>SFN-SFN Measurement Threshold Information						
>>>SFN-SFN Measurement Threshold Information	М		9.2.1.52B		YES	reject
>>Load						
>>>Load	М		INTEGER(0100)	0 is the minimum indicated load, and 100 is the maximum indicated load.	YES	reject
>>Transmitted Carrier Power						
>>>Transmitted Carrier Power	М		INTEGER(0100 )	According to mapping in [23] and [24].	YES	reject
>>Received Total Wide Band Power						
>>>Received Total Wide Band Power	Μ		INTEGER(0621 )	According to mapping in [23] and [24].	YES	reject
>>UL Timeslot ISCP				TDD Only		
>>>UL Timeslot ISCP	М		INTEGER(0127 )	According to mapping in [24]	YES	reject
>>RT Load						
>>>RT Load	М		INTEGER(0100		YES	reject

Information					
>>>NRT Load Information	М	INTEGER(03)		YES	reject
>>Rx Timing Deviation LCR			Applicable to 1.28Mcps TDD Only		
>>>Rx Timing Deviation LCR	М	INTEGER(0511 )	According to mapping in [24]	YES	reject
>>HS-SICH reception quality			Applicable to TDD Only		
>>>HS-SICH reception quality	M	INTEGER (020)	According to mapping in [24]	YES	reject
>>UpPTS interference			1.28Mcps TDD Only		
>>>UpPTS interference Value	М	INTEGER (0127,)	According to mapping in [24]	YES	reject
>>Rx Timing Deviation 768			Applicable to 7.68Mcps TDD Only		
>>>Rx Timing Deviation 768	М	INTEGER(0655 35)	According to mapping in [24]	YES	reject
>>Rx Timing Deviation 384 Extended			Applicable to 3.84Mcps TDD Only		
>>>Rx Timing Deviation 384 Extended	М	INTEGER(0327 67)	According to mapping in [24]	YES	reject
>>Extended Round Trip Time			FDD Only		
>>>Extended Round Trip Time Value	М	INTEGER (32767103041)	Continuation of intervals with step size as defined in [23].	YES	reject
>>T <sub>UTRAN-GANSS</sub> Measurement Threshold Information					
>>>T <sub>UTRAN-</sub> GANSS Measurement Threshold Information	М	9.2.1.113		YES	reject

## 9.2.1.39A 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).

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message structure		1 <maxnoo flevels&gt;</maxnoo 		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	M		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 no. of message levels to report. The value for
	maxnooflevels is 256.

# 9.2.1.40 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		1		
Procedure Code	M		INTEGER (0255)	<ul> <li>"0" = Common Transport Channel Resources Initialisation</li> <li>"1" = Common Transport Channel Resources Release</li> <li>"2" = Compressed Mode Command</li> <li>"3" = Downlink Power Control</li> <li>"4" = Downlink Power Timeslot Control</li> <li>"5" = Downlink Signalling Transfer</li> <li>"6" = Error Indication</li> <li>"7" = Dedicated Measurement Failure</li> <li>"8" = Dedicated Measurement Initiation</li> <li>"9" = Dedicated Measurement Reporting</li> <li>"10" = Dedicated Measurement Reporting</li> <li>"10" = Dedicated Measurement Reporting</li> <li>"10" = Dedicated Measurement Termination</li> <li>"11" = Paging</li> <li>"12" = Physical Channel Reconfiguration</li> <li>"15" = Radio Link Addition</li> <li>"15" = Radio Link Preemption</li> <li>"18" = Radio Link Failure</li> <li>"17" = Radio Link Restoration</li> <li>"19" = Relocation Commit</li> <li>"20" = Relocation Commit</li> <li>"21" = Synchronised Radio Link Reconfiguration Cancellation</li> <li>"22" = Synchronised Radio Link Reconfiguration Preparation</li> <li>"24" = UnSynchronised Radio Link Reconfiguration</li> <li>"25" = Uplink Signalling Transfer</li> <li>"26" = Common Measurement Failure</li> <li>"27" = Common Measurement Failure</li> </ul>
				<ul> <li>"28" = Common Measurement Reporting</li> <li>"29" = Common Measurement Termination</li> <li>"30" = Information Exchange Failure</li> <li>"31" = Information Exchange Initiation</li> <li>"32" = Information Reporting</li> <li>"33" = Information Exchange Termination</li> <li>"34" = Radio Link Congestion</li> <li>"35" = Reset</li> <li>"36" = Radio Link Activation</li> <li>"37" = GERAN Uplink Signalling Transfel</li> <li>"38" = Radio Link Parameter Update</li> <li>"39" = UE Measurement Failure</li> <li>"40" = UE Measurement Reporting</li> <li>"42" = UE Measurement Termination</li> <li>"41" = UE Measurement Termination</li> <li>"43" = Iur Deactivate Trace</li> <li>"44" = Iur Invoke Trace</li> <li>"45" = MBMS Attach</li> <li>"46" = MBMS Detach</li> <li>"48" = Direct Information Transfer</li> </ul>
>Ddmode	М		ENUMERATED(FDD, TDD, Common,)	Common = common to FDD and TDD.
Type of Message	М		ENUMERATED(Initiati ng Message, Successful Outcome, Unsuccessful	

Outcome, Outcome)

#### 9.2.1.41 Multiple URAs Indicator

The Multiple URAs Indicator indicates whether the accessed cell has multiple URAs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Multiple URAs Indicator			ENUMERAT	
			ED(Multiple	
			URA s exist,	
			Single URA	
			Exists)	

## 9.2.1.41a NACC Related Data

The NACC related data IE provides NACC related information for the indicated GSM cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE GERAN System Info Type	М			
>S/				
>>SI	М		9.2.1.30Fc	GERAN system information SI3, SI13, SI1 [47]
>PSI				
>>PSI	М		9.2.1.30Fc	GERAN system information PSI1, PSI2, PSI4 [47]

## 9.2.1.41A Neighbouring UMTS Cell Information

The *Neighbouring UMTS Cell Information* IE provides information for UMTS Cells that are neighbouring cells to a cell in the DRNC. The neighbouring cell information is provided for each RNC (including the DRNC) that has cells that are neighbouring cells to the cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring UMTS Cell Information		1 <maxnoof neighbourin gRNCs&gt;</maxnoof 			EACH	ignore
>RNC-ID	M		9.2.1.50	If the Extended RNC-ID IE is included in the Neighbourin g UMTS Cell Information IE, the RNC- ID IE shall be ignored.	_	
>CN PS Domain Identifier	0		9.2.1.12		—	
>CN CS Domain Identifier	0		9.2.1.11		-	
>Neighbouring FDD Cell Information	0		9.2.1.41B		-	
>Neighbouring TDD Cell Information	0		9.2.1.41D		_	
>Neighbouring TDD Cell Information LCR	0		9.2.1.72		YES	ignore
>Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range bound	Explanation
maxnoofneighbouringRNCs	Maximum number of neighbouring RNCs.

# 9.2.1.41B Neighbouring FDD Cell Information

The *Neighbouring FDD Cell Information* IE provides information for FDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring FDD Cell Information		1 <max noofFDD neighbou rs&gt;</max 			-	
>C-ID	М		9.2.1.6		-	
>UL UARFCN	М		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	_	
>DL UARFCN	М		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>Frame Offset	0		9.2.1.30			
>Primary Scrambling Code	М		9.2.1.45			
>Primary CPICH Power	0		9.2.1.44		_	
>Cell Individual Offset	0		9.2.1.7		_	
>Tx Diversity Indicator	М		9.2.2.50			
>STTD Support Indicator	0		9.2.2.45		_	
>Closed Loop Mode1 Support Indicator	0		9.2.2.2		-	
>Not Used	0		NULL		_	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>DPC Mode Change Support Indicator	0		9.2.2.56		YES	ignore
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location Indicator	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container FDD	0		9.2.2.D		YES	ignore
>SNA Information	0		9.2.1.52Ca		YES	ignore
>Frequency Band Indicator	0		9.2.2.59		YES	ignore
>Max UE DTX Cycle	C-CPC- DTX- DRXCapab le		9.2.2.87		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore

Range bound	Explanation
maxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.

Condition	Explanation
CPC-DTX-DRXCapable	The IE shall be present if the the fifteenth bit Continuous Packet
	Connectivity DTX-DRX Support Indicator in the Cell Capability Container
	FDD IE is set to the value "1".

# 9.2.1.41C Neighbouring GSM Cell Information

The *Neighbouring GSM Cell Information* IE provides information for all GSM Cells that are a neighbouring cell to a cell in the DRNC.

Neighbouring GSM Cell         1mondS noodS Mineighbourise         Cell Global Identity as defined in ref. [1].         G           >CGI         1         Cell Global Identity as defined in ref. [1].         G           >>LAI         1         Cell Global Identity as defined in ref. [1].         G           >>SCGI         1         - digits 0 to 9, two digits per octet, - each digit encoded 000 to 1001, -010 to 100, -010 to 1001, -010 to 100, -010 to 1001, -010 to 1001, -010 to 1001, -010 to 100, -010 to 1001, -010 to 100, -010 to 1001, -010 to 100, -010 to 100, -010 to 1001, -010 to 100, -010 to		Criticality
>CGI       1       Cell Global Identity as defined in ref. [1].         >>LAI       1	GLOBAL	ignore
>>LAI         1	_	
>>>PLMN Identity       M       OCTET       - digits 0 to 9, two         STRING (3)       - digits 0 to 9, two       digits per cotet, - each digit encoded         >>>LAC       - digit 1 to 1 of octet n       - bit 4 to 1 of octet n         - orosists of 3 digits from MCC followed       by either       - a filler Plus 2 digits from MNC (in case of 2 digit MNC) or         -3 digits from MNC (in case of 2 digits from MNC (in case of 3 digits from MNC (in case of a 3 digits from MNC (in case of a 3 digits from MNC)       - diller Plus 2 digits from MNC (in case of 2 digit MNC) or         >>LAC       M       OCTET       - diller Plus 2 digits from MNC (in case of 2 digit MNC) or         ->>LAC       M       OCTET       - diller Plus 2 digits from MNC (in case of 2 digit MNC) or         ->>LAC       M       OCTET       - diller Plus 2 digits from MNC (in case of 2 digit MNC) or         ->>CI       M       OCTET       - diller Plus 2 digits from MNC (in case of 2 digit MNC) or         >Cell Individual Offset       0       9.2.1.7       The Cell Individual Offset IE is present, the Cell filt of the Extended GSM Cell Individual Offset IE is present, the Cell Individual Offset IE is a) a -10dB if the Extended GSM Cell Individual Offset IE is a) a -10dB if the Extended GSM Cell Individual Offset IE is a) a -10dB if the Extended GSM Cell Individual Offset IE is a) a -10dB if the Extended GSM Cell Individual Offset IE is a) a -10dB if the Extended GSM Cell Individual Offset IE is a) a -10dB.         >Base Station Iden	_	
>>>LAC       M       OCTET STRING (2)       0000 and FFFE not allowed         >>CI       M       OCTET STRING (2)       Image: Comparison of the comparis	_	
STRING (2)         >Cell Individual Offset       0       9.2.1.7       The Cell Individual Offset to be used for UEs using DCHs. If the Extended GSM Cell Individual Offset IE is present, the Cell Individual Offset IE shall be set to a) –10dB if the Extended GSM Cell Individual Offset IE is < -10dB and b) 10dB if the Extended GSM Cell Individual Offset IE is < -10dB	-	
>Cell Individual Offset       0       9.2.1.7       The Cell Individual Offset to be used for UEs using DCHs. If the Extended GSM Cell Individual Offset IE is present, the Cell Individual Offset IE shall be set to a) –10dB if the Extended GSM Cell Individual Offset IE is <a href="https://www.shallwood.com"></a> –10dB if the Extended GSM Cell Individual Offset IE is <a href="https://www.shallwood.com"></a> –10dB if the Extended GSM Cell Individual Offset IE is <a href="https://www.shallwood.com">&gt;BSIC</a> 1         >BSIC       1       Base Station Identity Code as defined in ref. [1].	-	
Code as defined in ref. [1].	_	
>>NCC M BIT Network Colour	_	
STRING(3) Code.	-	
>>BCC M BIT Base Station Colour STRING(3) Code.	-	
>Band Indicator       M     ENUMERAT     Indicates whether or       ED(DCS     not the BCCH       1800 band,     ARFCN belongs to       PCS 1900     the 1800 band or       band,)     1900 band of GSM       frequencies.     1900 band of GSM	_	
>BCCH ARFCN M INTEGER(0. BCCH Frequency as defined in ref. [29].	-	
>Coverage Indicator O 9.2.1.12G	YES	ignore
>Antenna Co-location     O     9.2.1.2C       Indicator     9.2.1.30N	YES YES	ignore

> SNA Information	0	9.2.1.52Ca		YES	ignore
>GERAN Cell Capability	0	9.2.1.30Fa		YES	ignore
>GERAN Classmark	0	9.2.1.30Fb		YES	ignore
>Extended GSM Cell Individual Offset	0	9.2.1.26Bb	The Extended GSM Cell Individual Offset to be used for UEs using DCHs, for values that exceed the range of the <i>Cell</i> <i>Individual Offset</i> IE.	YES	ignore

Range bound	Explanation			
maxnoofGSMneighbours	Maximum number of neighbouring GSM cells for one cell.			

# 9.2.1.41D Neighbouring TDD Cell Information

The *Neighbouring TDD Cell Information* IE provides information for 3.84Mcps TDD or 7.68Mcps TDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring TDD Cell Information		1 <maxnoo fTDDneighb ours&gt;</maxnoo 			_	
>C-ID	Μ		9.2.1.6		_	
>UARFCN	М		9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Frame Offset	0		9.2.1.30		-	
>Cell Parameter ID	Μ		9.2.1.8		-	
>Sync Case	Μ		9.2.1.54		-	
>Time Slot For SCH	C-Case1		Time Slot 9.2.1.56		-	
>SCH Time Slot	C-Case2		9.2.1.51		-	
>SCTD Indicator	Μ		9.2.1.78		-	
>Cell Individual Offset	0		9.2.1.7		-	
>DPCH Constant Value	0		9.2.1.23		-	
>PCCPCH Power	0		9.2.1.43		-	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location Indicator	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container TDD	0		9.2.3.1a		YES	ignore
>Cell Capability Container 7.68Mcps TDD	0		9.2.3.31		YES	ignore
> SNA Information	0		9.2.1.52Ca		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore

Condition	Explanation
Case1	The IE shall be present if the Sync Case IE is set to "Case1".
Case2	The IE shall be present if the Sync Case IE is set to "Case2".

Range bound	Explanation
maxnoofTDDneighbours	Maximum number of neighbouring 3.84Mcps TDD or 7.68Mcps TDD cell for one cell.

# 9.2.1.41Dd Neighbouring TDD Cell Measurement Information LCR

This IE provides information on the 1.28Mcps 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 LCR* IE and *Midamble shift LCR* IE shall be included if available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Cell Identifier	Μ		9.2.1.71	
UARFCN	Μ		9.2.1.66	Corresponds to Nt [15]
Cell Parameter ID	Μ		9.2.1.8	
Time Slot LCR	0		9.2.3.12a	
Midamble shift LCR	0		9.2.3.4C	

## 9.2.1.41E Paging Cause

Cause for a CN originated page.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging Cause			ENUMERAT ED( Terminating Conversatio nal Call, Terminating Streaming Call, Terminating Interactive Call, Terminating Background Call, Terminating Low Priority Signalling, , Terminating High Priority Signalling, Terminating - cause unknown )	See in [16]

# 9.2.1.41F Paging Record Type

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Paging Record Type			ENUMERAT	See ref. [16]
			ED(IMSI	
			(GSM-MAP),	
			TMSI (GSM-	
			MAP), P-	
			TMSI (GSM-	
			MAP), IMSI	
			(DS-41),	
			TMSI (DS-	
			41),)	

## 9.2.1.41Fa Partial Reporting Indicator

This IE indicates if DRNS may report partially successful measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Partial Reporting Indicator			ENUMERAT ED(partial reporting allowed)	

## 9.2.1.41G 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
UTRAN Cell Identifier	М		9.2.1.71	
UARFCN	М		9.2.1.66	Corresponds to Nd [6]
Primary Scrambling Code	М		9.2.1.45	

## 9.2.1.41H 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
UTRAN Cell Identifier	Μ		9.2.1.71	
UARFCN	Μ		9.2.1.66	Corresponds to Nt [15]
Cell Parameter ID	Μ		9.2.1.8	
Time slot	0		9.2.1.56	
Midamble Shift And Burst Type	0		9.2.3.4	

## 9.2.1.411 NRT Load Information Value

The *NRT Load Information* IE indicates the load situation on the cell for the Non Real-Time traffic. Non Real Time traffic corresponds to the Interactive and Background traffic classes.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink NRT Load Information Value	M		INTEGER(0. .3)	Mapping of the status: 0: low: The Uplink NRT load is low. 1: medium: The Uplink NRT load is medium. 2: high: Uplink NRT load is high. Probability to admit a new user is low. 3: overloaded: Uplink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.
Downlink NRT Load Information Value	M		INTEGER(0. .3)	Mapping of the status: 0: low: The Downlink NRT load is low. 1: medium: The Downlink NRT load is medium. 2: high: Downlink NRT load is high. Probability to admit a new user is low. 3: overloaded: Downlink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.

## 9.2.1.42 Payload CRC Present 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			ENUMERAT	
Indicator			ED(CRC	
			Included,	
			CRC not	
			included)	

## 9.2.1.43 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the PCCPCH Power is the linear sum of the power that is used for transmitting the PCCPCH on all branches.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCCPCH Power			NTEGER (- 150400,)	Unit dBm Range $-15.0$ to $40.0$ dBm, Step size 0.1 dB. -15.0 shall indicate P $\leq$ -15dBm +40.0 shall indicate P $\geq$ 40dBm.

## 9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the Primary 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 Step 0.1 dB

## 9.2.1.45 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(0 511)	

## 9.2.1.45A Priority Queue ID

The *Priority Queue ID* IE provides the identity of the Priority Queue. The Priority Queue ID is unique across all MACd flows that are currently allocated for one UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Priority Queue ID			INTEGER (07)	

## 9.2.1.45B Process Memory Size

The *Process Memory Size* IE is the size of an HARQ process in the DRNS expressed in bits. It provides the maximum number of soft channel bits in the virtual IR buffer [9] or [46].

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,)	

## 9.2.1.46 Puncture Limit

The maximum amount of puncturing for a transport channel in rate matching.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Puncture Limit			INTEGER (015)	0: 40% 1: 44 %
				 14: 96% 15: 100% (no puncturing) [FDD - Value 0 is not applicable for E-DPCH.]

## 9.2.1.46A 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			ENUMERAT ED(selected,	
			non- selected)	

## 9.2.1.47 RANAP Relocation Information

This parameter is transparent to the RNSAP. The parameter contains information for the Relocation procedure as defined in [2].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RANAP Relocation			BIT STRING	The content is defined in ref.
Information				[2].

## 9.2.1.48 Report Characteristics

The Report Characteristics, defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE Report Characteristics	М				-	
>On Demand			NULL		_	
>Periodic			NOLL			
>>Report Periodicity	M		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	-	
>Event A			0.0.4.00	<b>T</b> L -		
>>Measurement Threshold	M		9.2.1.39	The threshold for which the DRNS shall trigger a measuremen t report.	_	
>>Measurement	0		9.2.1.36A		-	
Hysteresis Time						
>Event B						
>>Measurement Threshold	Μ		9.2.1.39	The threshold for which the DRNS shall trigger a measuremen t report.	_	
>Measurement Hysteresis Time	0		9.2.1.36A		-	
>Event C						
>>Measurement Increase/Decrease Threshold	М		9.2.1.38		-	
>>Measurement Change Time	М		9.2.1.35B	The time within which the measuremen t entity shall rise, in order to trigger a measuremen t report.	_	
>Event D						
>>Measurement Increase/Decrease Threshold	М		9.2.1.38		_	
>>Measurement Change Time	М		9.2.1.35B	The time within which the measuremen t entity shall fall, in order to trigger a measuremen t report.	_	
>Event E	M		Magazza			
>>Measurement Threshold 1	M		Measureme nt Threshold 9.2.1.39		_	
>>Measurement	0		Measureme		-	
Threshold 2			nt Threshold			

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.1.39			
>>Measurement Hysteresis Time	0		9.2.1.36A	The hysteresis time in ms	_	
>>Report Periodicity	0		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	Ι	
>Event F						
>>Measurement Threshold 1	М		Measureme nt Threshold 9.2.1.39		_	
>>Measurement Threshold 2	0		Measureme nt Threshold 9.2.1.39		-	
>>Measurement Hysteresis Time	0		9.2.1.36A	The hysteresis time in ms	1	
>>Report Periodicity	0		9.2.1.48a	The periodicity with which the DRNS shall send measuremen t reports.	_	
>Additional Report Characteristics						
>>On Modification						
>>> On Modification		1			YES	reject
>>>>Measure ment Threshold	M		9.2.1.39			

## 9.2.1.48a 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	М			
>millisecond				
>>Report Periodicity Value	М		INTEGER (16000,)	Unit: ms Range: 1060000 ms Step: 10 ms
>minute				
>>Report Periodicity Value	М		INTEGER (160,)	Unit: min Range: 160 min Step: 1 min

## 9.2.1.48A Requested Data Value

The Requested Data Value contains the relevant data concerned the ongoing information exchange. *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
UTRAN Access Point Position	0		9.2.1.75		-	
with Altitude						
IPDL Parameters	0		9.2.1.31F		_	
DGPS Corrections	0		9.2.1.19B		_	
GPS Navigation Model and	0		9.2.1.301		-	
Time Recovery						
GPS Ionospheric Model	0		9.2.1.30H		-	
GPS UTC Model	0		9.2.1.30L		-	
GPS Almanac	0		9.2.1.30G		-	
GPS Real-Time Integrity	0		9.2.1.30J		-	
GPS RX Pos	0		9.2.1.30K		_	
SFN-SFN Measurement Reference Point Position	0		9.2.1.74		_	
Cell Capacity Class Value	0		9.2.1.5C		YES	ignore
NACC Related Data	0		9.2.1.41a		YES	ignore
MBMS Bearer Service Full Address	0		9.2.1.84		YES	ignore
Inter-frequency Cell Information	0		9.2.1.31G		YES	ignore
GANSS Common Data		01			YES	ignore
>GANSS Ionospheric Model	0		9.2.1.105		_	
>GANSS RX Pos	0		9.2.1.109		_	
GANSS Generic Data		0 <maxno ofGANSS &gt;</maxno 			GLOBAL	ignore
>GANSS ID	0		9.2.1.119		_	
>DGANSS Corrections	0		9.2.1.102		_	
>GANSS Navigation Model And Time Recovery	0		9.2.1.120		_	
>GANSS Time Model	0		9.2.1.110		_	
>GANSS UTC Model	0		9.2.1.111			
>GANSS Almanac	0		9.2.1.103		_	
>GANSS Real Time	0	+	9.2.1.103			
Integrity	_					
>GANSS Data Bit Assistance	0		9.2.1.118		-	

Range Bound	Explanation
maxnoofGANSS	Maximum number of GANSS Systems

## 9.2.1.48B 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	Criticality	Assigned Criticality
CHOICE Information Availability Indicator	М				-	
>Information Available					-	
>>Requested Data Value	Μ		9.2.1.48A		-	
>Information not Available			NULL		Ι	

## 9.2.1.48C Restriction State Indicator

The Restriction state indicator is the identifier indicates whether the cell is "Cell Reserved for Operator Use" or not. It is provided by DRNS and reported to SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Restriction state indicator			ENUMERAT	
			ED(Cell Not	
			Reserved for	
			Operator	
			Use, Cell	
			Reserved for	
			Operator	
			Use,)	

## 9.2.1.48D 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			ENUMERAT	
			ED (	
			RLC-AM,	
			RLC-UM,)	

## 9.2.1.49 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)	

## 9.2.1.49A RL Specific DCH Information

The *RL Specific DCH Information* IE provides RL Specific DCH Information for DCHs. In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur, 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	Μ		9.2.1.16		-	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	_	
>Transport Bearer Not Requested Indicator	0		9.2.2.4S	FDD Only	YES	Ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

## 9.2.1.50 RNC-ID

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RNC-ID			INTEGER(0. .4095)	

## 9.2.1.50a 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(4 09665535)	Note: Application of the Extended RNC-ID IE to very
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	large networks is FFS.

## 9.2.1.50A SAT ID

The SAT ID indicates the identity of the satellite.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SAT ID			INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [30].

## 9.2.1.50B RT Load Value

The *RT Load Value* IE indicates in percents the ratio of the load generated by Real Time traffic, relative to the measured Load Value. Real Time traffic corresponds to the Conversational and Streaming traffic classes.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink RT Load Value	М		INTEGER(0.	
			.100)	
Downlink RT Load Value	Μ		INTEGER(0.	
			.100)	

## 9.2.1.51 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 is 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(0. .6)	

## 9.2.1.51A Scheduling Priority Indicator

Indicates the relative priority of the FACH, [TDD - DSCH, USCH,] HS-DSCH [FDD - or E-DCH] data frame. Used by the DRNC when scheduling FACH, [TDD - DSCH, USCH,] HS-DSCH [FDD - or E-DCH] traffic.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Scheduling Priority Indicator			INTEGER(0. .15)	Relative priority of the FACH, [TDD - DSCH, USCH,] HS- DSCH [FDD - or E-DCH] data frame: 0=Lowest Priority  15=Highest Priority

## 9.2.1.52 Service Area Identifier (SAI)

This information element is used to identify an area consisting of one or more cells belonging to the same Location Area. Such an area is called a Service Area and can be used for indicating the location of a UE to the CN. For this protocol, only a Service Area that is defined to be applicable to the PS and CS domains shall be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	Μ		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
LAC	Μ		OCTET STRING (2)	0000 and FFFE not allowed
SAC	Μ		OCTET STRING (2)	

## 9.2.1.52A SFN

System Frame Number of the cell, see ref. [17].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SFN			INTEGER(0. .4095)	

## 9.2.1.52B 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(1. .256)	Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.
Predicted SFN-SFN Deviation Limit	0		INTEGER(1. .256)	Deviation the Predicted SFN- SFN from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

## 9.2.1.52C SFN-SFN Measurement Value Information

The SFN-SFN Measurement Value Information IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements as well as other related information.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information		1 <maxnoofmeasn Cell&gt;</maxnoofmeasn 		
>UTRAN Cell Identifier	М		9.2.1.71	
>SFN-SFN Value	М		9.2.1.77	
>SFN-SFN Quality	0		INTEGER(0. .255)	Indicates the standard deviation (std) of the SFN-SFN otd (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] is the expectation value of x.
>SFN-SFN Drift Rate	М		INTEGER(- 100100)	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 neighbouring cell.
>SFN-SFN Drift Rate Quality	0		INTEGER(0. .100)	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 value of x.
>SFN-SFN Measurement Time Stamp	М		9.2.1.76	
Unsuccessful Neighbouring cell SFN- SFN Observed Time Difference Measurement Information		0 <maxnoofmeasn Cell-1&gt;</maxnoofmeasn 		
>UTRAN Cell Identifier	М		9.2.1.71	

Range bound	Explanation
maxnoofMeasNCell	Maximum number of neighbouring cells on which
	measurements can be performed.

# 9.2.1.52Ca Shared Network Area (SNA) Information

This information element contains a list of Shared Network Areas, identified by the Shared Network Area Code (SNAC, see [1]) which a certain cell belongs to. For a broader description of the SNA access control see [40].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PLMN Identity	Μ		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n</li> <li>encoding digit 2n-1</li> <li>bit 8 to 5 of octet n</li> <li>encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
List of SNAs		0 <maxnoofsnas &gt;</maxnoofsnas 		
> SNAC	М		INTEGER (0 65535)	

Range bound	Explanation
maxnoofSNAs	Maximum number of SNAs one cell can be part of.

## 9.2.1.52D 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)	

## 9.2.1.53 S-RNTI

The S-RNTI identifies the UE in the SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
S-RNTI			INTEGER(0. .2^20 -1)	

#### 9.2.1.53a S-RNTI Group

The S-RNTI Group identifies a group of UEs in the SRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
S-RNTI	М		9.2.1.53	
S-RNTI bit mask index	М		Enumerated( b1, b2,b19,)	

The S-RNTI group is identified by all S-RNTI values whose bits starting from the most significant bit down to, and including, the bit indicated by S-RNTI bit mask index, are equal to the corresponding bits of the S-RNTI in this IE.

The bits of the S-RNTI in this IE that are less significant than the bit position indicated by the S-RNTI bit mask index shall be ignored.

## 9.2.1.54 Sync Case

The SCH and PCCPCH in a TDD cell are mapped on one or two downlink slots per frame. There are two cases of Sync Case 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 DRNC to SRNC used for 1.28Mcps TDD, the DRNC shall indicate Sync Case 1 and the SRNC shall ignore it.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Sync Case			INTEGER	
			(12,)	

## 9.2.1.54A T1

The T1 IE is used as described in ref [41] subclause 11.6.2.3.

IE	E/Group Name	Presence	Range	IE type and	Semantics description
				reference	
T1				ENUMERAT	Unit: ms
				ED (10, 20,	Node B may use this value to
				30, 40, 50,	stop the re-transmission of
				60, 70, 80,	the corresponding MAC-hs
				90, 100, 120,	PDU.
				140, 160,	
				200, 300,	
				400,)	

## 9.2.1.55 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 [12].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Presence			ENUMERATE	
			D(Present,	
			not present)	

## 9.2.1.56 Time Slot

The Time Slot represents the time interval assigned to a Physical Channel referred to the start of a Radio Frame.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Time Slot			INTEGER	
			(014)	

## 9.2.1.56A 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 [44] at the DRNS 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 [44]. Typically used when the DRNS and its SRNC are in the same DS domain as defined in [45].
>Generic Traffic Category				
>>Generic Traffic Category	М		BIT STRING (8)	

## 9.2.1.57 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	Unit: msec.
			(02559)	

## 9.2.1.58 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: msec.

## 9.2.1.58a Trace Depth

The Trace Depth IE is Trace Configuration Parameter what should be traced by the DRNC on the indicated interfaces.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Depth			ENUMERATED ( Minimum, Medium, Maximum,)	Meaning of this parameter is described in [49]

## 9.2.1.58b Trace Recording Session Reference

The *Trace Recording Session Reference* IE provides a Trace Recording Session Reference allocated by the triggering entity.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Recording Session Reference			INTEGER (065535)	

## 9.2.1.58c Trace Reference

The Trace Reference IE provides a Trace Reference allocated by the triggering entity.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Trace Reference			OCTET STRING (SIZE(23))	

## 9.2.1.58A Traffic Class

This IE indicates the type of application the Radio Bearer is optimised for.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Traffic Class			ENUMERATED (conversational, streaming, interactive, background, )	

## 9.2.1.59 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 procedures addressed to a specific UE Context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures for the same UE using the same procedure code, and initiated by the same protocol peer.

For procedures not addressed to a specific UE Context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures using the same procedure code, and initiated by the same protocol peer.

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	Μ		INTEGER (032767)	

## 9.2.1.59A Transmitted Carrier Power

The Transmitted Carrier Power IE contains the Transmitted Carrier Power in a cell, as defined in [11] & [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmitted Carrier Power			INTEGER(0. .100)	According to mapping in [23] and [24].

## 9.2.1.59B T<sub>UTRAN-GPS</sub> Accuracy Class

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
T <sub>UTRAN-GPS</sub> Accuracy Class			ENUMERAT ED(Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about Measurement Accuracy Class is included in [23].

## 9.2.1.59C T<sub>UTRAN-GPS</sub> Measurement Threshold Information

The T<sub>UTRAN-GPS</sub> 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(1. .256)	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(1. .256)	Deviation of the Predicted $T_{UTRAN-GPS}$ from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

## 9.2.1.59D 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 for UE Positioning. According to mapping in [23] and [24]; significant values range from 0 to 37158911999999.
>MS	Μ		INTEGER (016383)	Most Significant Part
>LS	М		INTEGER (04294967 295)	Least Significant Part
Tutran-gps Quality	0		INTEGER(0. .255)	Indicates the standard deviation (std) of the T <sub>UTRAN-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	М		INTEGER(- 5050)	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(0. .50)	Indicates the standard deviation (std) of the T <sub>UTRAN-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.

## 9.2.1.60 Transport Bearer ID

The Transport Bearer ID uniquely identifies an Iur transport bearer.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer ID			INTEGER(0. .4095)	

## 9.2.1.61 Transport Bearer Request Indicator

Indicates whether a new Iur transport bearer needs to be established for carrying the corresponding data stream(s), or whether an existing transport bearer will be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Request			ENUMERAT	
Indicator			ED(Bearer	
			Requested,	
			Bearer not	
			Requested,	
			)	

## 9.2.1.62 Transport Layer Address

In case of transport bearer establishment with ALCAP [3] [35], this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to [3] [35].

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 [3].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Layer Address			BIT	
			STRING(11	
			60,)	

## 9.2.1.63 Transport Format Combination Set (TFCS)

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 to 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 <maxnooftfcs &gt;</maxnooftfcs 		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		9.2.1.14A	
>>>CHOICE Gain	C-			
Factors	PhysChan			
>>>Signalled Gain Factors				
>>>>Gain Factor β <sub>C</sub>	M		INTEGER(0 15)	<ul> <li>[FDD - For UL DPCCH or control part of PRACH ref.</li> <li>[21].]</li> <li>[TDD - β for UL DPCH mapping in accordance to [13].]</li> </ul>
>>>>Gain Factor β <sub>D</sub>	М		INTEGER(0 15)	[FDD - For UL DPDCH or data part of PRACH ref. [21].] [TDD - Should be set to 0 by the sender, and shall be ignored by the receiver.]
>>>>Reference TFC nr	0		INTEGER(0 15)	If this TFC is a reference TFC, this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	М		INTEGER(0 15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>Not Used			NULL	This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.

Condition	Explanation		
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH		
	[FDD – or PRACH channel].		

Range bound	Explanation
maxnoofTFCs	The maximum number of Transport Format Combinations.

# 9.2.1.64 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 <maxtfcount></maxtfcount>		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	Μ			
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynamic	1 <maxttlcount></maxttlcount>		
>>>>Transmission Time Interval	Μ		ENUMERAT ED(10, 20, 40, 80,)	Unit: msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	Μ		ENUMERAT ED (10, 20, 40, 80, dynamic, )	Unit: msec Value "dynamic" for 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		ENUMERAT ED (No codingTDD, Convolutiona I, Turbo,)	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C – Coding		ENUMERAT ED (1/2, 1/3,)	
Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode >>TDD	М			
>>>2 <sup>nd</sup> Interleaving Mode	М		ENUMERAT ED(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 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	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
maxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
maxTTIcount	The amount of different TTI that are possible for that transport
	format is.

# 9.2.1.65 TrCH Source Statistics Descriptor

Defines the statistics of the data transmitted in the transport channel. This information may be used in reserving resources in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TrCH Source Statistics Descriptor			ENUMERAT ED(Speech, RRC, Unknown, )	"Speech" = Statistics of the data corresponds to speech. "RRC" = Statistics of the data corresponds to RRC signalling "Unknown" = The statistics of the data is unknown

### 9.2.1.66 UARFCN

The UTRA Absolute Radio Frequency Channel Number defines the carrier.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UARFCN			INTEGER(0. .16383,)	Corresponds to: 0.0Hz 3276.6MHz see ref. [6] and ref. [7].

### 9.2.1.66A UE Identity

The UE Identity IE identifies the UE by one of its Permanent NAS Identifier.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Identity	М			
>IMSI				
>>IMSI	М		9.2.1.31	
>IMEI				
>>IMEI	М		9.2.1.30T	
>IMEISV				
>>IMEISV	М		9.2.1.30U	

### 9.2.1.67 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			ENUMERAT	
			ED(Normal,	
			Silent,)	

### 9.2.1.68 UL Interference Level

Void

### 9.2.1.68A Uncertainty Ellipse

This IE contains the uncertainty ellipse used to describe a possible shape of the geographical area of a cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uncertainty semi-major	Μ		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Uncertainty semi-minor	Μ		INTEGER( 0127)	The uncertainty "r" is derived from the "uncertainty code" k by $r = 10x(1.1^{k}-1)$
Orientation of major axis	М		INTEGER( 0179)	The relation between the IE value (N) and the angle (a) in degrees it describes is $2N \le a < 2(N+1)$ . The values 90179 shall not be used.

### 9.2.1.68B 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 Uplink SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Uplink SIR			INTEGER (- 82173)	Value = Uplink SIR/10 Unit dB Range -8.2+17.3 Step 0.1 dB

# 9.2.1.70 URA ID

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
URA ID			INTEGER(0. .65 535)	

### 9.2.1.70A UTRAN Access Point Position

The UTRAN Access Point Position indicates the exact geographical position of the base station antenna.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Latitude Sign	М		ENUMERAT ED(North, South)	
Degrees of Latitude	M		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° 90°)
Degrees of Longitude	М		INTEGER( -2 <sup>23</sup> 2 <sup>23</sup> -1)	The IE value (N) is derived by this formula: $N \le 2^{2^4} X / 360 < N+1$ X being the longitude in degree (-180°+180°)

### 9.2.1.70B URA Information

The URA Information IE contains URA Information for one cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
URA ID	М		9.2.1.70		-	
Multiple URAs Indicator	М		9.2.1.41		_	
RNCs with Cells in the Accessed URA		0 <maxrncin URA-1&gt;</maxrncin 		Other RNCs having at least one cell in the URA identified by the URA ID IE.	_	
>RNC-ID	M		9.2.1.50	If the Extended RNC-ID IE is included in the URA Information IE, the RNC-ID IE shall be ignored.	_	
>Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.	YES	reject

Range Bound	Explanation
maxRNCinURA	Maximum number of RNC in one URA.

# 9.2.1.70C User Plane Congestion Fields Inclusion

The *User Plane Congestion Fields Inclusion* IE is used by the DRNC to indicate to the SRNC to include in the HS-DSCH Data Frames the User Plane fields related to TNL Congestion Control for HSDPA (namely the Frame Sequence Number and the DRT, see [32]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
User Plane Congestion Fields Inclusion			ENUMERATED ( Shall be included)	

# 9.2.1.71 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
RNC-ID	Μ		9.2.1.50	If the <i>Extended RNC-ID</i> IE is included in the <i>UC-ID</i> IE, the <i>RNC-ID</i> IE shall be ignored.
C-ID	M		9.2.1.6	
Extended RNC-ID	0		9.2.1.50a	The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.

# 9.2.1.72 Neighbouring TDD Cell Information LCR

The *Neighbouring TDD Cell Information LCR* IE provides information for 1.28Mcps TDD cells that are neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Neighbouring TDD Cell Information LCR		1 <maxno ofLCRTDD neighbour s&gt;</maxno 			_	
>C-ID	М		9.2.1.6		_	
>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Frame Offset	0		9.2.1.30		-	
>Cell Parameter ID	Μ		9.2.1.8		-	
>SCTD Indicator	Μ		9.2.1.78		_	
>Cell Individual Offset	0		9.2.1.7		_	
>DPCH Constant Value	0		9.2.1.23		_	
>PCCPCH Power	0		9.2.1.43		-	
>Restriction State Indicator	0		9.2.1.48C		_	
>Coverage Indicator	0		9.2.1.12G		YES	ignore
>Antenna Co-location Indicator	0		9.2.1.2C		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Cell Capability Container TDD LCR	0		9.2.3.1b		YES	ignore
> SNA Information	0		9.2.1.52Ca		YES	ignore
>Multiple PLMN List	0		9.2.1.117		YES	ignore

Range bound	Explanation			
maxnoofLCRTDDneighbours	Maximum number of neighbouring 1.28Mcps TDD cell for one cell.			

# 9.2.1.73 Permanent NAS UE Identity

This element is used to identify the UE in UTRAN.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Choice Permanent NAS UE Identity				
>IMSI				
>>IMSI	М		9.2.1.31	

### 9.2.1.74 SFN-SFN Measurement Reference Point Position

The SFN-SFN Measurement Reference Point Position indicates the exact geographical position of the SFN-SFN measurement reference point. The altitude shall be included when available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	Μ		9.2.1.30F	
Altitude and direction	0		9.2.1.2B	

### 9.2.1.75 UTRAN Access Point Position with Altitude

The UTRAN Access Point Position with Altitude indicates the exact geographical position of the base station antenna. The altitude shall be included when available.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Geographical Coordinates	М		9.2.1.30F	
Altitude and direction	0		9.2.1.2B	

### 9.2.1.76 SFN-SFN Measurement Time Stamp

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	M			
>FDD				
>>SFN	М		9.2.1.52A	Indicates the SFN of the reference cell at which the measurement has been performed.
>TDD				
>>SFN	М		9.2.1.52A	Indicates the SFN of the reference cell at which the measurement has been performed.
>>Time Slot	М		9.2.1.56	Indicates the Time Slot of the reference cell at which this measurement has been performed.

### 9.2.1.77 SFN-SFN Value

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Mode	M			
>FDD				
>>SFN-SFN	М		INTEGER(0. . 614399)	According to mapping in [23].
>TDD				1.28Mcps or 3.84Mcps TDD
>>SFN-SFN	М		INTEGER(0. . 40961)	According to mapping in [24].
>TDD 7.68Mcps				
>>SFN-SFN	М		INTEGER(0. . 81923)	According to mapping in [24].

### 9.2.1.78 SCTD Indicator

Indicates if SCTD antenna diversity is applied or not to the PCCPCH and PICH [3.84Mcps TDD].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SCTD Indicator			ENUMERAT ED(active, inactive)	

### 9.2.1.79 Congestion Cause

The Congestion Cause IE indicates the cause of a congestion situation:

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Congestion Cause			ENUMERATED (UTRAN Dynamic Resources, UTRAN Semistatic Resources, )	

The meaning of the different congestion cause values is described in the following table:

Congestion cause	Meaning
UTRAN Dynamic Resources	UL and/or DL resource congestion situation mainly caused by the UL and/or DL UTRAN Dynamic Resources. This type of congestion situation is, e.g. related to the limitation of the DL transmitted carrier power of the cell(s), or the UL Interference situation in the concerned cell(s).
UTRAN Semistatic Resources	UL and/or DL resource congestion situation mainly related to UTRAN Semistatic Resources (e.g. channelisation codes, Node-B resources,).

### 9.2.1.80 TMGI

The TMGI is the unique identifier for an MBMS bearer service, see ref.[1].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PLMN Identity	M		OCTET STRING (3)	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN Identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or a 3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
Service ID	М		OCTET STRING (3)	

### 9.2.1.81 Transmission Mode

The Transmission Mode IE indicates the transmission mode used for MBMS data transmission in one cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Mode			ENUMERAT ED(PTP, PTM, Not Provided).	PTP: The MBMS data is transmitted through point to point channel. PTM: The MBMS data is transmitted through point to multipoint channel. Not Provided: The MBMS data is not transmitted in the DRNC.

### 9.2.1.82 Access Point Name

The APN and IP Multicast Address uniquely identify an MBMS bearer service.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
APN	Μ		OCTET STRING (1255)	

### 9.2.1.83 IP Multicast Address

The APN and IP Multicast Address uniquely identify an MBMS bearer service.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IP Multicast Address	M		OCTET STRING (416)	

### 9.2.1.84 MBMS Bearer Service Full Address

This IE provides the full address of an MBMS Bearer Service otherwise identified by its TMGI.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Access Point Name	Μ		9.2.1.82	
IP Multicast Address	М		9.2.1.83	

### 9.2.1.85 Provided Information

This IE contains the relevant data concerned the direct information transfer procedure. *Provided Information* IE shall include at least one of the following IEs.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
MBMS Channel Type Information	0		9.2.1.86			
MBMS Preferred Frequency Layer Information	0		9.2.1.87			
UpPCH Information LCR	0		9.2.3.55	Applicable to 1.28Mcps TDD only.	YES	ignore

# 9.2.1.86 MBMS Channel Type Information

This IE contains the channel types of a MBMS Bearer Service indicated by *TMGI* IE in one or more cells. *MBMS Channel Type Information* IE shall include at least one *C-ID* IE and *Affected UE Information for MBMS* IE in the *PTM Cell List* IE, the *PTP Cell List* IE and/or *Not Provided Cell List* IE.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
-		-	Reference	
TMGI	М		9.2.1.80	
PTM Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	М		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	Μ		9.2.1.53	
PTP Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	Μ		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	Μ		9.2.1.53	
Not Provided Cell List		0 <maxnoofcells></maxnoofcells>		
>C-ID	Μ		9.2.1.6	
>Affected UE Information		0 <maxnoofues></maxnoofues>		
for MBMS				
>>S-RNTI	М		9.2.1.53	

Range Bound	Explanation
maxnoofCells	Maximum number of cells that can be indicated in the corresponding IE.
maxnoofUEs	Maximum number of S-RNTIs that can be indicated per cell in the respective IEs.

### 9.2.1.87 MBMS Preferred Frequency Layer Information

This IE contains the preferred frequency layer of a MBMS Bearer Service indicated by *TMGI* IE in one or more cells that host at least one CELL\_DCH UE whose UE Link contains the concerned MBMS Bearer Service and whose SRNC is different from the CRNC.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TMGI	М		9.2.1.80	
Preferred Frequency Layer Information				
>Default Preferred	М		UARFCN	
Frequency			9.2.1.66	
>Additional Preferred Frequency		0 <maxnoofaddfr eq&gt;</maxnoofaddfr 		Preferred frequencies different from default preferred frequency
>>DL UARFCN	М		UARFCN 9.2.1.66	
>>Corresponding Cells		1 <maxnoofcellsp erFreq&gt;</maxnoofcellsp 		
>>>C-ID	М		9.2.1.6	

Range Bound	Explanation
maxnoofAddFreq	Maximum number of additional preferred frequencies different from
	default preferred frequency in an RNC.
maxnoofCellsPerFreq	Maximum number of cells whose preferred frequency is the same.

### 9.2.1.88 E-DCH DDI Value

The *E-DCH DDI Value* IE 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)	

### 9.2.1.89 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 a E-DCH MAC-d flow, the DRNS 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.

### 9.2.1.90 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	Semantics Description
			Reference	
E-DCH MAC-d Flows To		1 <maxnoofedch< td=""><td></td><td></td></maxnoofedch<>		
Delete		MACdFlows>		
>E-DCH MAC-d Flow ID	М		9.2.1.91	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.2.1.91 E-DCH MAC-d Flow ID

The E-DCH MAC-d Flow ID IE 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 (0 maxnoofEDC HMACdFlow s-1)	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

# 9.2.1.92 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
E-DCH Logical Channel Information		1 <maxnooflogical channels&gt;</maxnooflogical 		
>Logical Channel ID	М		9.2.1.97	
>Scheduling Priority Indicator	М		9.2.1.51A	
>Scheduling Information	М		9.2.1.101	
>MAC-es Guaranteed Bit Rate	0		9.2.1.98	
>E-DCH DDI Value	M		9.2.1.88	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< maxnoofMACdPDU Size		
>>MAC-d PDU Size	Μ		9.2.1.34A	

Range Bound	Explanation
maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

# 9.2.1.93 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
E-DCH Logical Channel		1 <maxnooflogical< td=""><td></td><td></td></maxnooflogical<>		
Information		channels>		
>Logical Channel ID	Μ		9.2.1.97	
>Scheduling Priority	0		9.2.1.51A	
Indicator				
>Scheduling Information	0		9.2.1.101	
>MAC-es Guaranteed Bit	0		9.2.1.98	
Rate				
>E-DCH DDI Value	0		9.2.1.88	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< maxnoofMACdPDU Size		
>>MAC-d PDU Size	М		9.2.1.34A	

Range Bound	Explanation
maxnooflogicalchannels	Maximum number of logical channels
maxnoofMACdPDUSize	Maximum number of MAC-d PDU size per Logical Channels

### 9.2.1.94 E-RNTI

The E-RNTI IE is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. [52].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RNTI			INTEGER (065535)	

### 9.2.1.95 E-DCH Processing Overload Level

The *E-DCH Processing Overload Level* IE defines the threshold that determines when DRNS shall indicate processing issue problems to the SRNC.

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 DRNS shall never indicate processing issue to the RNC.

### 9.2.1.96 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 Scheduling Info			INTEGER (06)	Unit: dB Step: 1 dB

### 9.2.1.97 Logical channel ID

The Logical Channel ID IE is used to identify a E-DCH logical channel in Scheduling Information that is sent over Uu.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Logical Channel ID		INTEGER (115)		

### 9.2.1.98 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 (02^24-1,, 2^24256,000, 000)	Unit: bit/s

#### 9.2.1.99 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			ENUMERAT	
			ED (MAC-e	
			Reset)	

#### 9.2.1.100 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 Retransmissions for E-DCH			INTEGER (015)	

### 9.2.1.101 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			ENUMERAT	
			ED (	
			Included,	
			Not Included)	

### 9.2.1.102 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		9.2.1.121	
>Status/Health	М		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	C-	1 to		If the Cipher information is
Information	Status/Hea Ith	<maxgan SSSat&gt;</maxgan 		included these fields are ciphered

IE/Group name	Presence	Range	IE Type and Reference	Semantics description
>>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	М		INTEGER(- 20472047)	Scaling factor 0.32 meters
>>RRC	М		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

# 9.2.1.103 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			
<i>&gt;Keplerian Parameters</i> >>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>	Μ		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	Μ		INTEGER(0. .63)	Identifies the satellite and is equal to (SV ID No - 1)
>>>e	Μ		BIT STRING(11)	Eccentricity, dimensionless [53]
>>>ði	Μ		BIT STRING(11)	semi-circles [53]
>>>OMEGADOT	М		BIT STRING(11)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [53]
>>>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> [53]
>>>OMEGA <sub>0</sub>	М		BIT STRING(16)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [53]
>>>M <sub>0</sub>	М		BIT STRING(16)	Mean Anomaly at Reference Time (semi-circles) [53]
>>>()	М		BIT STRING(16)	Argument of Perigee (semi- circles) [53]
>>>af <sub>0</sub>	М		BIT STRING(14)	Seconds [53]
>>>af <sub>1</sub>	М		BIT STRING(11)	sec/sec [53]

Range Bound	Explanation
maxGANSSSatAlmanac	Maximum number of satellites for which data is included in the IE

# 9.2.1.104 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 [53]
>a <sub>i2</sub>	М		BIT STRING(12)	defined in [53]
>a <sub>i1</sub>	М		BIT STRING(18)	defined in [53]
>a <sub>i0</sub>	М		BIT STRING(28)	defined in [53]
>T <sub>GD</sub>	0		BIT STRING(10)	defined in [53]
>Model ID	0		INTEGER(0.	Coded as defined in [16].

Range bound	Explanation
maxGANSSClockMod	Maximum number of satellite clock models for which data is included in the IE.

# 9.2.1.105 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 [53]
a <sub>i1</sub>	М		BIT STRING(12)	This parameter is used as defined in [53]
a <sub>i2</sub>	М		BIT STRING(12)	This parameter is used as defined in [53]
GANSS Ionosphere Regional Storm Flags		01		
>Storm Flag 1	М		BOOLEAN	This parameter is used as defined in [53]
>Storm Flag 2	М		BOOLEAN	This parameter is used as defined in [53]
>Storm Flag 3	М		BOOLEAN	This parameter is used as defined in [53]
>Storm Flag 4	М		BOOLEAN	This parameter is used as defined in [53]
>Storm Flag 5	М		BOOLEAN	This parameter is used as defined in [53]

# 9.2.1.106 GANSS Navigation Model

Void.

### 9.2.1.107 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 [53]
>>0	М		BIT STRING(32)	Argument of Perigee (semi- circles) [53]
≫∆n	М		BIT STRING(16)	Mean Motion Difference From Computed Value (semi- circles/sec) [53]
>>M0	М		BIT STRING(32)	Mean Anomaly at Reference Time (semi-circles) [53]
>>OMEGAdot	М		BIT STRING(24)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [53]
>>e	М		BIT STRING(32)	Eccentricity, scale factor 2 <sup>-33</sup> [53]
>>ldot	М		BIT STRING(14)	Rate of Inclination Angle (semi-circles/sec) [53]
>>sqrtA	М		BIT STRING(32)	Least significant bits of Semi- Major Axis in (meters) <sup>1/2</sup> , scale factor 2 <sup>-19</sup> [53]
>>i0	М		BIT STRING (32)	Inclination Angle at Reference Time (semi-circles) [53]
>>OMEGA <sub>0</sub>	М		BIT STRING(32)	Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [53]
>>C <sub>rs</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters) [53]
>>C <sub>is</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians) [53]
>>C <sub>us</sub>	М		BIT STRING(16)	Amplitude of the Sine Harmonic Correction Term To The Argument Of Latitude (radians) [53]
>>C <sub>rc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term to the Orbit Radius (meters) [53]
>>C <sub>ic</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Angle Of Inclination (radians) [53]
>>C <sub>uc</sub>	М		BIT STRING(16)	Amplitude of the Cosine Harmonic Correction Term To The Argument Of Latitude (radians) [53]

# 9.2.1.108 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
			Reference	
Satellite Information		1 to		
		<maxgan< td=""><td></td><td></td></maxgan<>		
		SSSat>		
>Bad GANSS Sat ID	М		INTEGER(0.	Identifies the satellite and is
			.63)	equal to (SV ID No - 1).
>Bad GANSS Signal ID	0		BIT	Coded as defined in [16].
5			STRING(8)	

1	Range Bound	Explanation
	maxGANSSSat	Maximum number of satellites for which data is included in the IE

### 9.2.1.109 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	Μ		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,>

### 9.2.1.110 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	Μ		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

# 9.2.1.111 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 [53]
A <sub>0</sub>	М		BIT STRING(32)	seconds [53]
t <sub>ot</sub>	М		BIT STRING(8)	seconds [53]
WNt	М		BIT STRING(8)	weeks [53]
$\Delta t_{LS}$	М		BIT STRING(8)	seconds [53]
WN <sub>LSF</sub>	М		BIT STRING(8)	weeks [53]
DN	М		BIT STRING(8)	days [53]
$\Delta t_{LSF}$	М		BIT STRING(8)	seconds [53]

### 9.2.1.112 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
Tutran-ganss Accuracy Class			ENUMERAT ED (Accuracy Class A, Accuracy Class B, Accuracy Class C,)	More information about Measurement Accuracy Class is included in [23].

# 9.2.1.113 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(1. .256)	Change of T <sub>UTRAN-GANSS</sub> 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(1. .256)	Deviation of the Predicted T <sub>UTRAN-GANSS</sub> from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

### 9.2.1.114 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	М			Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in [23] and [24]; 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		INTEGER(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.

# 9.2.1.115 GANSS Reference Time

Void.

# 9.2.1.116 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 [42] is partitioned equally between all HARQ processes according to the rules in [16].	_	
>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 [16]	-	
>>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 "maxnoofHARQp rocesses", the 2 <sup>nd</sup> instance to HARQ process with identifier set to "maxnoofHARQp rocesses+1", and so on.	GLOBAL	ignore
>>>Process Memory Size	М		9.2.1.49D	See [16]	-	

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)]

## 9.2.1.117 Multiple PLMN List

This information element contains a list of PLMN identities, which identifies the broadcasted PLMN Identities in MOCN and GWCN shared network configurations. The mandatory PLMN Identity in the MIB (called common PLMN in [54]) is the first PLMN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PLMN Identity	M		OCTET STRING (SIZE (3))	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or a 3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
List of PLMNs		0 <maxnrofbroadc astPLMNs&gt;</maxnrofbroadc 		
>PLMN Identity	M		OCTET STRING (SIZE (3))	<ul> <li>digits 0 to 9, two digits per octet,</li> <li>each digit encoded 0000 to 1001,</li> <li>1111 used as filler</li> <li>bit 4 to 1 of octet n encoding digit 2n-1</li> <li>bit 8 to 5 of octet n encoding digit 2n</li> <li>The PLMN identity consists of 3 digits from MCC followed by either</li> <li>a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>a digit MNC).</li> </ul>

Range bound	Explanation
maxNrOfBroadcastPLMNs	Maximum number of additional PLMN identitys that can be
	broadcasted in a cell involved in a MOCN or GWCN Shared
	Network configuration. The value for maxNrOfBroadcastPLMNs is 5.

### 9.2.1.118 GANSS Data Bit Assistance

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
GANSS TOD	М		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 List		1< <i>m</i> axGANS SSat>		
>Sat ID	Μ		INTEGER(063)	Identifies the satellite and is equal to (SV ID No - 1)
>Data Bit Assistance Sgn List		1< <i>m</i> axSgnTy pe>		
>>GANSS Signal ID	Μ		9.2.1.121	
>>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

### 9.2.1.119 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 [16]. All values are reserved in this version of the protocol.

# 9.2.1.120 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		9.2.1.122	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 [53]
>IOD	М		BIT STRING(10)	
>GANSS Clock Model	М		9.2.1.104	
>GANSS Orbit Model	М		9.2.1.107	

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.

### 9.2.1.121 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 [16].

### 9.2.1.122 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	Μ		INTEGER(0 86399)	GANSS Time of Day in seconds

# 9.2.2 FDD Specific Parameters

This subclause contains parameters that are specific to FDD.

### 9.2.2.a ACK-NACK Repetition Factor

The ACK-NACK Repetition Factor IE indicates the consecutive repetition of the ACK and NACK.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ACK-NACK Repetition			INTEGER	Step: 1
Factor			(1,4,)	

### 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. [21] 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. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CM Configuration Change CFN	М		CFN 9.2.1.9	
Transmission Gap Pattern Sequence Status		0 <maxtgps></maxtgps>		If the group is not present, none of the pattern sequences are activated.
>TGPSI Identifier	М		INTEGER(1. . <maxtgps &gt;)</maxtgps 	Establish a reference to the compressed mode pattern sequence. Up to <maxtgps> simultaneous compressed mode pattern sequences can be activated.</maxtgps>
>TGPRC	M		INTEGER(0. .511)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	М		CFN 9.2.1.9	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

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 (1 256)	Unit: Frames

### 9.2.2.C Adjustment Ratio

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 (0 100)	The Adjustment Ratio is given with a granularity of 0.01 0 -> 0.00 1 -> 0.01  100 -> 1.00

### 9.2.2.Ca Bundling Mode Indicator

The Bundling Mode Indicator indicates whether the bundling shall be done or shall not be done for Iur.

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.D Cell Capability Container FDD

The Cell Capability Container FDD indicates which functionalities a cell supports.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container			BIT STRING	Each bit indicates whether a
FDD			(32)	cell supports a particular
			(02)	functionality or not. The
				value 1 of a bit indicates that
				the corresponding
				functionality is supported in a
				cell and value 0 indicates
				that the corresponding
				functionality is not supported
				in a cell. Each bit is defined
				as follows.
				The first bit:Reserved.
				The second bit: Delayed
				Activation Support Indicator.
				The third bit: HS-DSCH
				Support Indicator.
				The fourth bit:Reserved.
				The fifth bit: F-DPCH
				Support Indicator.
				The sixth bit: E-DCH Support
				Indicator.
				The seventh bit: E-DCH
				TTI2ms Support Indicator.
				The eighth bit: E-DCH
				2sf2and2sf4 and all inferior
				SFs Support Indicator.
				The ninth bit: E-DCH 2sf2
				and all inferior SFs Support
				Indicator.
				The tenth bit: E-DCH 2sf4
				and all inferior SFs Support
				Indicator.
				The eleventh bit: E-DCH sf4
				and all inferior SFs Support
				Indicator.
				The twelveth bit: E-DCH sf8
				and all inferior SFs Support
				Indicator.
				The thirteenth bit: E-DCH
				HARQ IR Combining
				Support Indicator.
				The fourteenth bit: E-DCH
				HARQ Chase Combining
				Support Indicator. The fifteenth bit: Continuous
				Packet Connectivity DTX-
				DRX Support Indicator.
				The sixteenth bit: Continuous
				Packet Connectivity HS-
				SCCH less Support
				Indicator.
				The seventeenth bit: MIMO
				Support Indicator.
				The eighteenth bit:
				SixteenQAM UL Support
				Indicator.
				The nineteenth bit: Flexible
				MAC-d PDU Size Support
				Indicator.
			1	The twentieth bit: F-DPCH
				Slot Format Support
				Indicator. The twenty first bit:
				SixtyfourQAM DL Support
			1	Indicator.
				Note that undefined bits are

		considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit. They shall however be set to 0 by the transmitter and shall be ignored by the receiver.
--	--	---

#### 9.2.2.E Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See [11].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion ID			INTEGER (063,)	

### 9.2.2.1 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip Offset is used as offset for the DL DPCH 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

### 9.2.2.2 Closed Loop Mode1 Support Indicator

The Closed Loop Mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Closed Loop Mode1 Support			ENUMERAT	
Indicator			ED(Closed	
			loop mode1	
			Supported,	
			Closed loop	
			mode1 not	
			supported).	

### 9.2.2.3 Closed Loop Mode2 Support Indicator

Void.

### 9.2.2.3A 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			ENUMERAT ED(Offset1, Offset2,)	According to [10] subclause 7.1: Offset1 = slot(j+1)mod15 Offset2 = slot(j+2)mod15

## 9.2.2.4 Compressed Mode Method

Void

# 9.2.2.4A 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		9.2.1.42		-	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	М		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		_	
>>TrCH Source Statistics Descriptor	М		9.2.1.65		_	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	М		9.2.1.64	For the DL.	_	
>>BLER	М		9.2.1.4	For the UL.	-	
>>BLER	М		9.2.1.4	For the DL.	-	
>Allocation/Retention Priority	М		9.2.1.1		-	
>>Frame Handling Priority	М		9.2.1.29		_	
>>QE-Selector	М		9.2.1.46A		_	
>>DRAC control	М		9.2.2.13		-	
>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	М		9.2.1.58A		YES	ignore
>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

# 9.2.2.4B 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		9.2.2.4MC		-	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40	If this IE is not included, scheduled transmission in all HARQ processes is allowed.	F	
E-DCH Maximum Bitrate	0		9.2.2.4MG		-	
E-DCH Processing Overload Level	0		9.2.1.95		-	
E-DCH Reference Power Offset	0		9.2.2.4MI		-	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96		YES	ignore
SixteenQAM UL Operation Indicator	0		9.2.2.90		YES	reject

# 9.2.2.4C 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 DRNS.

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
E-DCH MAC-d Flow Specific Information Response		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.91	If only HARQ Process Allocation For 2ms Scheduled Transmissio n Grant IE and this IE (E-DCH MAC-d Flow ID) are present in the E-DCH FDD Information Response IE, the content of this IE shall be considered invalid	_	
>Binding ID	0		9.2.1.3		-	
>Transport Layer Address	0		9.2.1.62		-	
>HARQ Process Allocation For 2ms Non- Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
>Transport Bearer Not Setup Indicator	0		9.2.2.4T		YES	ignore
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.

# 9.2.2.4D 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.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-AGCH and E-RGCH And E-HICH FDD Scrambling Code	0		DL Scrambling Code 9.2.2.11	Scrambling code on which E-AGCH, E- RGCH and E- HICH are transmitted. 0= Primary scrambling code of the cell 115 = Secondary scrambling code	_	
E-AGCH Channelisation Code	0		FDD DL Channelisat ion Code Number 9.2.2.14		-	
Primary E-RNTI	0		E-RNTI 9.2.1.94		-	
Secondary E-RNTI	0		E-RNTI 9.2.1.94		_	
E-RGCH and E-HICH Channelisation Code	М		FDD DL Channelisat ion Code Number 9.2.2.14		-	
E-RGCH Signature Sequence	0		INTEGER (0maxnoof SigSeqERG HICH-1)		-	
E-HICH Signature Sequence	0		INTEGER (0maxnoof SigSeqERG HICH-1)		-	
Serving Grant Value	0		INTEGER (037,38)	(037) indicates E- DCH serving grant index as defined in [41]; index 38 means zero grant	-	
Primary/Secondary Grant Selector	0		ENUMERA TED (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		9.2.2.60		_	
E-RGCH and E-HICH Channelisation Code Validity Indicator	0		9.2.2.68	Indicates whether the value of E- RGCH and E- HICH Channelisatio n Code is invalid	YES	ignore
Default Serving Grant in DTX Cycle 2	0		INTEGER (037,38)	Serving Grant value to be	YES	ignore

	used in DTX- Cycle-2. (037) indicates E- DCH serving grant index as defined in [32]; index 38 means zero grant
	grant

Range bound	Explanation
maxnoofSigSeqERGHICH	Maximum number Signature Sequences for E-RGCH / E-HICH

# 9.2.2.4E 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			ENUMERAT	
			ED(E-DCH,	
			non E-DCH)	

# 9.2.2.4F E-DCH FDD Information To Modify

The E-DCH FDD Information IE provides information for an E-DCH to be modified.

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		9.2.1.91		-	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Transport Bearer Request Indicator	Μ		9.2.1.61		_	
>TNL QoS	0		9.2.1.56A		_	
>Maximum Number of Retransmissions for E- DCH	0		9.2.1.100		1	
>Traffic Class	0		9.2.1.58A		-	
>E-DCH HARQ Power Offset FDD	0		9.2.2.4L		Ι	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		Ι	
> 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	M		9.2.2.4N	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 9.2.2.40		_	
>>>Extended Maximum Number of Bits per MAC-e PDU for Non- scheduled Transmission	0		9.2.2.4R		YES	reject

>>E-DCH Scheduled			NULL		
Transmission Grant					
>Bundling Mode Indicator	0		9.2.2.Ca	-	
>E-DCH Logical Channel	0		E-DCH	-	
To Add			Logical		
			Channel		
			Information		
			9.2.1.92		
>E-DCH Logical Channel			9.2.1.93	_	
To Modify					
>E-DCH Logical Channel		0<		_	
To Delete		maxnooflo			
		gicalchann			
		els>			
>>Logical Channel ID	М		9.2.1.97	_	
HARQ Process Allocation	0		HARQ	_	
For 2ms Scheduled			Process		
Transmission Grant			Allocation		
			for 2ms TTI		
			9.2.2.40		
E-DCH Maximum Bitrate	0		9.2.2.4MG	_	
E-DCH Processing Overload	0		9.2.1.95	_	
Level					
E-DCH Reference Power	0		9.2.2.4MI	_	
Offset					
MAC-e Reset Indicator	0		9.2.1.99	—	
E-DCH Power Offset for	0		9.2.1.96	YES	ignore
Scheduling Info					-
SixteenQAM UL Operation	0		9.2.2.90	YES	reject
Indicator					
E-DCH DL Control Channel		0 <maxno< td=""><td></td><td>GLOBAL</td><td>ignore</td></maxno<>		GLOBAL	ignore
Grant Information		ofEDCHR			-
		Ls>			
>E-DCH RL ID	Μ		RL ID	_	
			9.2.1.49		

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

## 9.2.2.4G E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in [41] 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	Semantics	Criticality	Assigned
			and Reference	Description		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 [41].	_	
E-DCH Minimum Set E- TFCI	М		INTEGER (0127)	For the concept of "E- DCH Minimum Set of TFCs" see [41] and [16].	-	
Reference E-TFCI Information		1 <maxno ofRefETF Cls&gt;</maxno 			-	
>Reference E-TFCI	М		INTEGER (0127)		_	
>Reference E-TFCI Power Offset	М		9.2.2.4P	If the Extended Reference E- TFCI Power Offset IE is present, this IE shall be ignored	_	
>Extended Reference E- TFCI Power Offset	0		9.2.2.4Q		YES	reject
E-DCH Minimum Set E- TFCI Validity Indicator	0		9.2.2.69	Indicates whether the value of E- DCH Minimum Set E-TFCI is invalid	YES	reject
E-TFCI Boost Informatiion	0		9.2.2.91		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

## 9.2.2.4J 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			ENUMERAT	
			ED (2ms,	
			10ms)	

## 9.2.2.4K 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. [21] subclause 4.2.1.3

#### 9.2.2.4KA Void

#### 9.2.2.4L 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. [21] subclause 4.2.1.3.

9.2.2.4M Void

9.2.2.4MA Void

9.2.2.4MB Void

#### 9.2.2.4MC 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		9.2.1.91		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>TNL QoS	0		9.2.1.56A		_	
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>Maximum Number of Retransmissions for E- DCH	M		9.2.1.100		-	
>Traffic Class	Μ		9.2.1.58A		_	
>E-DCH HARQ Power Offset FDD	М		9.2.2.4L		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		_	
>CHOICE E-DCH grant type	М				_	
>>E-DCH Non- Scheduled Transmission Grant						
>>>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission	М		9.2.2.4N	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 9.2.2.40	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		9.2.2.4R		YES	reject
>>E-DCH Scheduled Transmission Grant			NULL			
>Bundling Mode Indicator	0		9.2.2.Ca		_	
>E-DCH Logical Channel Information	М		9.2.1.92		_	
>TrCH Source Statistics Descriptor	0		9.2.1.65		YES	ignore

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.

9.2.2.4MD Void

9.2.2.4ME Void

9.2.2.4MF Void

#### 9.2.2.4MG 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 (05742,, 574311498)	Bitrate on transport block level. Unit is kbits per second.

#### 9.2.2.4MH Void

#### 9.2.2.4MI 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				[21] subclause 4.2.1.3.

#### 9.2.2.4MJ Void

#### 9.2.2.4N 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 maximum numbers 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 DRNS, 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 DRNS, see section 9.2.2.4R.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of Bits per			INTEGER (119982)	
MAC-e PDU for Non-				
Scheduled Transmission				

#### 9.2.2.40 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 [41], chapter 11.8.1.3.

#### 9.2.2.4P 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 DRNS, the *Extended Reference E-TFCI Power Offset* IE shall be used to represent the value to be sent to the DRNS, see section 9.2.2.4Q.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Reference E-TFCI Power Offset			INTEGER (029)	According to mapping in ref. [21] subclause 4.2.1.3

## 9.2.2.4Q 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 9.2.2.4P) is insufficient to represent the value of the Reference E-TFCI Power Offset to be sent to the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Extended Reference E-TFCI Power Offset			INTEGER (3031,)	According to mapping in ref. [21] subclause 4.2.1.3

# 9.2.2.4R 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 9.2.2.4N) 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 DRNS.

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				

#### 9.2.2.4S 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 DCH or an E-DCH MAC-d flow.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Bearer Not Requested Indicator			ENUMERATED (Transport Bearer shall not be Established, Transport Bearer may not be Established)	

## 9.2.2.4T 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 Indicator			ENUMERATED (Transport Bearer Not Setup)	

## 9.2.2.5 D-Field Length

Void

9.2.2.6 Diversity Control Field

Void.

9.2.2.7 Diversity Indication

Void.

#### 9.2.2.8 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Diversity Mode			ENUMERAT ED(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.

## 9.2.2.9 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, according to ref. [8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL DPCH Slot Format			INTEGER (016,)	

## 9.2.2.9A 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 DRNS. 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			ENUMERAT ED(timing advance, timing delay)	The size of the timing adjustment is 256 chips.

#### 9.2.2.10 DL Power

Void

## 9.2.2.10A 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	Criticality	Assigned Criticality
Power Adjustment Type	Μ		9.2.2.28		-	
DL Reference Power	C-Common		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	_	
DL Reference Power Information	C-Individual	1 <maxnoof RLs&gt;</maxnoof 			-	
>RL ID	М		9.2.1.49		-	
>DL Reference Power	М		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	-	
Max Adjustment Step	C- CommonOrIn dividual		9.2.2.23		_	
Adjustment Period	C- CommonOrIn dividual		9.2.2.B		_	
Adjustment Ratio	C- CommonOrIn dividual		9.2.2.C		_	

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.

## 9.2.2.10B 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			ENUMERATED(DL	
Activation Indicator			Power Balancing	
			Activated).	

## 9.2.2.10C DL Reference Power Information

The *DL Reference Power Information* IE provides reference power of the power balancing to be used in the relevant RL(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Common DL Reference Power	0		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	_	
Individual DL Reference Power Information		0 <maxnoof RLs&gt;</maxnoof 			-	
>RL ID	М		9.2.1.49		_	
>DL Reference Power	М		DL power 9.2.1.21A	Power on DPCH or on F-DPCH	_	

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.

#### 9.2.2.10D 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			ENUMERATED(DL	
Updated Indicator			Power Balancing	
			Updated).	

#### 9.2.2.11 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 115= Secondary scrambling code

## 9.2.2.12 Downlink Frame Type

Void

## 9.2.2.12A 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			ENUMERAT TED (Mode0, Mode1, )	Mode0: The DRNS shall estimate the UE transmitted TPC command and update the DL power in every slot Mode1: The DRNS shall estimate the UE transmitted TPC command over three slots and shall update the DL power in every three slots

#### 9.2.2.13 DRAC Control

The possibility to use DRAC control has been removed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRAC Control			ENUMERAT ED (Not Used, Not- Requested)	The DRAC Control IE shall never be set to "Not Used".

## 9.2.2.13A DSCH FDD Information

Void.

## 9.2.2.13B DSCH FDD Information Response

Void.

#### 9.2.2.13Bb DSCH-RNTI

Void.

## 9.2.2.13C FDD DCHs To Modify

The FDD DCHs To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FDD DCHs To Modify		1 <maxno ofDCHs&gt;</maxno 			_	
>UL FP Mode	0		9.2.1.67		_	
>ToAWS	0		9.2.1.58		_	
>ToAWE	0		9.2.1.57		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		_	
>>Transport Format Set	0		9.2.1.64	For the UL.	-	
>>Transport Format Set	0		9.2.1.64	For the DL.	-	
>>Allocation/Retention Priority	0		9.2.1.1		_	
>>Frame Handling Priority	0		9.2.1.29		_	
>>Not Used	0		NULL		_	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

## 9.2.2.13D Enhanced DSCH PC

Void.

9.2.2.13E Enhanced DSCH PC Counter

Void.

9.2.2.13F Enhanced DSCH PC Indicator

Void.

9.2.2.13G Enhanced DSCH PC Wnd

Void.

9.2.2.13H Enhanced DSCH Power Offset

Void.

#### 9.2.2.13I Enhanced Primary CPICH Ec/No

Energy per PN chip divided by the total received power spectral density measured on the Primary CPICH by the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced Primary CPICH Ec/No			INTEGER(0. .49)	According to the mapping of the Primary CPICH Ec/Io UE measurement defined in ref. [23] and [24]

## 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(0. . 511)	According to the mapping in [27]. 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 FDD DL Code information for all DPCHs or for the F-DPCH of one Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FDD DL Code Information		1 <maxnoof DLCodes</maxnoof 			_	
>DL Scrambling Code	Μ		9.2.2.11		-	
>FDD DL Channelisation Code Number	М		9.2.2.14		_	
<ul> <li>Transmission Gap Pattern</li> <li>Sequence Scrambling Code</li> <li>Information</li> </ul>	0		9.2.2.47B		_	

Range bound	Explanation
maxnoofDLCodes	Maximum number of DL Channelisation Codes for
	one UE.

## 9.2.2.15 FDD S-CCPCH Offset

Void.

#### 9.2.2.16 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Gro	up Name	Presence	Range	IE Type and Reference	Semantics Description
FDD TPC Do	wnlink Step			ENUMERAT	
Size				ED(0.5, 1,	
				1.5, 2,)	

## 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			ENUMERAT ED(first RLS, not first RLS)	

## 9.2.2.17 Gap Position Mode

Void.

9.2.2.18 Gap Period (TGP)

Void.

## 9.2.2.19 Gap Starting Slot Number (SN)

Void

## 9.2.2.19a HS-DSCH FDD Information

The HS-DSCH FDD Information IE is used for initial addition of HS-DSCH information to UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flows	М		9.2.1.30OA	•	-	Í
Information						
UE Capabilities		1			-	
Information						
>HS-DSCH Physical Layer Category	М		9.2.1.30Oa		_	
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	Not to be used.	YES	ignore
>Number of Supported Carriers	0		ENUMERATE D ( One-one carrier, One- three carrier, Three-three carrier, One- six carrier, Tree-six carrier, Six-six carrier, )	Not to be used.	YES	reject
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.34Ab		-	
CQI Feedback Cycle k	М		9.2.2.24a		-	
CQI Repetition Factor	C- CQICyclek		9.2.2.24c		_	
ACK-NACK Repetition Factor	M		9.2.2.a		_	
CQI Power Offset	М		9.2.2.24b		-	
ACK Power Offset	М		9.2.2.b		-	
NACK Power Offset	М		9.2.2.26a		_	
HS-SCCH Power Offset	0		9.2.2.19d		-	
HARQ Preamble Mode	0		9.2.2.57		YES	ignore
MIMO Activation Indicator	0		9.2.2.76		YES	reject
HS-DSCH MAC-d PDU Size Format	0		9.2.1.30OC	If not present, "Indexed MAC-d PDU Size" shall be used.	YES	reject
Sixtyfour QAM Usage Allowed Indicator	0		9.2.2.79A		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.

## 9.2.2.19b HS-DSCH FDD Information Response

The *HS-DSCH FDD Information Response* IE provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow Specific Information Response		0 <max noofMA CdFlow s&gt;</max 			_	
>HS-DSCH MAC-d Flow ID	М		9.2.1.300		-	
>Binding ID	0		9.2.1.3		-	
>Transport Layer Address	0		9.2.1.62		-	
>HS-DSCH Initial Capacity Allocation	0		9.2.1.30Na		-	
HS-SCCH Specific Information Response		0 <max noofHS SCCHc odes&gt;</max 			_	
>Code Number	М		INTEGER (0127)		-	
HS-PDSCH And HS- SCCH Scrambling Code	0		DL Scrambling Code 9.2.2.11		-	
Measurement Power Offset	0		9.2.2.24d		-	
HARQ Memory Partitioning	0		9.2.1.116		-	
User Plane Congestion Fields Inclusion	0		9.2.1.70C		YES	ignore
HARQ Preamble Mode Activation Indicator	0		9.2.2.58		YES	ignore
MIMO Information Response	0		9.2.2.78		YES	Ignore
SixtyfourQAM DL Usage Indicator	0		9.2.2.79B		YES	Ignore
HS-DSCH TB Size Table Indicator	0		9.2.2.19G		YES	ignore

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.

#### 9.2.2.19c 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 presented.

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
HS-SCCH Code Change Indicator	0		9.2.1.30R		_	
CQI Feedback Cycle k	0		9.2.2.24a		-	
CQI Repetition Factor	0		9.2.2.24c		-	
ACK-NACK Repetition Factor	0		9.2.2.a		-	
CQI Power Offset	0		9.2.2.24b		-	
ACK Power Offset	0		9.2.2.b		-	
NACK Power Offset	0		9.2.2.26a		-	
HS-PDSCH Code Change Indicator	0		9.2.1.30V		YES	ignore

## 9.2.2.19C 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 [21].

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 configuration for configuration of the E-DPDCHs IQ branch mapping [21].

#### 9.2.2.19d 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)	Step 0.25 dB, range -32- +31.75 dB

## 9.2.2.19e 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	Pres ence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Update Information		0 <maxn oofEDCH MACdFlo ws&gt;</maxn 			_	
>E-DCH MAC-d Flow ID	Μ		9.2.1.91		-	
>HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
HARQ Process Allocation For 2ms Scheduled Transmission Grant	0		HARQ Process Allocation for 2ms TTI 9.2.2.40		_	
E-DCH DL Control Channel Change Information		0 <maxn oofEDCH RLs&gt;</maxn 			GLOBAL	ignore
>E-DCH RL ID	М		RL ID 9.2.1.49		-	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows.
maxnoofEDCHRLs	Maximum number of E-DCH RLs for one UE

## 9.2.2.19f 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	Μ		RL ID 9.2.1.49		-	
HS-DSCH Information	0		HS-DSCH FDD Information 9.2.2.19a		_	
Continuous Packet Connectivity HS-SCCH less Information	0		9.2.2.74		YES	reject

## 9.2.2.19g 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					Ι	
>Successful					-	
>>HS-DSCH FDD Information Response	Μ		9.2.2.19b		-	
>>HS-DSCH-RNTI	Μ		9.2.1.30P		-	
>Continuous Packet Connectivity HS-SCCH less Information Response	0		9.2.2.75		YES	Ignore
>Unsuccessful					_	
>>Cause	М		9.2.1.5		_	

#### 9.2.2.19G HS-DSCH TB Size Table Indicator

The HS-DSCH TB Size Table Indicator IE is used to indicate that octet aligned table [41] shall be used.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HS-DSCH TB Size Table Indicator			ENUMERATED (octet aligned)	

#### 9.2.2.19h 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		0 <maxno< td=""><td></td><td></td></maxno<>		
Response		ofRLs>		
>>>RL ID	Μ		9.2.1.49	
>>>E-DCH FDD DL	М		9.2.2.4D	
Control Channel				
Information				
>Unsuccessful				
>>Cause	М		9.2.1.5	

Range bound	Explanation	
maxnoofRLs	Maximum number of RLs for one UE	

## 9.2.2.20 IB\_SG\_POS

Void.

#### 9.2.2.21 IB\_SG\_REP

Void.

#### 9.2.2.21a 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 for the UE Context.

	IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
I	nner Loop DL PC Status			ENUMERAT	
				ED(Active,	
				Inactive)	

#### 9.2.2.21b Initial DL DPCH Timing Adjustment Allowed

The *Initial DL DPCH Timing Adjustment Allowed* IE indicates that the DRNS 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 Adjustment Allowed			ENUMERATED ( initial DL DPCH Timing Adjustment Allowed)	

## 9.2.2.21A 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, DRNS 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			ENUMERAT	
			ED(Used,	
			Not used , )	

## 9.2.2.21B IPDL FDD Parameters

The IPDL FDD Parameters IE provides the information for the IPDL Configuration applied in FDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP spacing FDD	M		ENUMERAT ED(5,7,10,1 5,20,30,40,5 0,)	See [10]
IP length	М		ENUMERAT ED(5,10,)	See [10]
IP offset	М		INTEGER(0. .9)	See [10]
Seed	М		INTEGER(0. .63)	See [10]
Burst mode parameters	0		9.2.1.4B	

## 9.2.2.21C Length of TFCI2

Void.

9.2.2.21D Void

9.2.2.21E Void

9.2.2.21F Void

#### 9.2.2.22 Max Adjustment Period

Void.

#### 9.2.2.23 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 adjustments shall be maximum 1 dB. 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(1. .10)	Slots

#### 9.2.2.24 Max Number of UL DPDCHs

Maximum number of uplink DPDCHs 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)	

## 9.2.2.24a 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			ENUMERAT ED (0, 2, 4, 8, 10, 20, 40, 80, 160,, 16, 32, 64)	Unit ms

#### 9.2.2.24b 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. [21] subclause 4.2.1.

## 9.2.2.24c CQI Repetition Factor

The CQI Repetition Factor IE indicates the consecutive repetition of the CQI.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CQI Repetition Factor			INTEGER (1,4,)	Step: 1

#### 9.2.2.24d Measurement Power Offset

The Measurement Power Offset IE is used as defined in [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

#### 9.2.2.24e Maximum Set of E-DPDCHs

The Maximum Set of E-DPDCHs as defined in [9]. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Maximum Set of E-DPDCHs			ENUMERATED	
			(vN256, vN128,	
			vN64, vN32, vN16,	
			vN8, vN4, v2xN4,	
			v2xN2,	
			v2xN2plus2xN4,,	
			v2xM2plus2xM4)	

#### 9.2.2.24f Void

#### 9.2.2.24A Min DL Channelisation Code Length

Void

## 9.2.2.25 Min UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH during the connection. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Min UL Channelisation Code			ENUMERAT	
Length			ED(4,8,16,	
			32,64,128,	
			256)	

#### 9.2.2.26 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			ENUMERAT	
			ED(Fixed,	
			Flexible)	

## 9.2.2.26a 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. [21] subclause 4.2.1.

#### 9.2.2.26A Number of DL Channelisation Codes

This parameter notifies DRNS of the number of DL channelisation codes required for the Radio Link(s).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number of DL			INTEGER(1.	
Channelisation Codes			.8)	

## 9.2.2.27 Pattern Duration (PD)

Void

## 9.2.2.27a PC Preamble

Indicates DPDCH power control preamble length see ref. [7].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCP Preamble			INTEGER(0. .7,)	In number of frames.

## 9.2.2.27A PDSCH Code Mapping

Void.

#### 9.2.2.27B Phase Reference Update Indicator

The Phase Reference Update Indicator IE indicates that the phase reference for the radio link needs to be changed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Phase Reference Update			ENUMERATED	
indicator			(Phase	
			Reference	
			needs to be	
			changed)	

## 9.2.2.28 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Adjustment Type			ENUMERAT	
			ED(None,	
			Common,	
			Individual)	

#### 9.2.2.29 Power Control Mode (PCM)

Void.

#### 9.2.2.30 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPCH in case the UE Context is configured to use DPCH in the downlink.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Power Offset				Unit dB,
			INTEGER(0.	Step 0.25 dB,
			.24)	Range 06 dB

#### 9.2.2.31 Power Resume Mode (PRM)

Void.

#### 9.2.2.31A Preamble Signatures

Void.

## 9.2.2.32 Primary CPICH Ec/No

Energy per chip divided by the power density per band measured on the Primary CPICH by the terminal.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Primary CPICH Ec/No			INTEGER(-	Unit dB, step 1 dB
			30+30)	The value range is typically
				within the range of -24 dB to 0
				dB according to the CPICH
				Ec/lo UE measurement
				defined in ref. [23].

## 9.2.2.32A 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			ENUMERATED	
Channel Estimation			(Primary CPICH	
			may be used,	
			Primary CPICH	
			shall not be	
			used)	

## 9.2.2.33 Propagation Delay (PD)

Propagation delay is the one-way propagation delay of the radio signal from the UE to the Node B. If the range of the *Propagation Delay* IE is insufficient to represent the measured value, it shall be set to its maximum value, and the *Extended Propagation Delay* IE (see 9.2.2.33a) shall be used to represent the propagation delay value.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Propagation Delay				Unit: Chips. Step: 3 chips.
			INTEGER(0.	0=0 chips,
			.255)	1=3 chips,

## 9.2.2.33a 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 9.2.2.33) 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 [23]. Unit: chip Range: 7653069 chips Step: 3 chips

## 9.2.2.33A PRACH Minimum Spreading Factor

Void.

9.2.2.34 QE-Selector

Void.

9.2.2.34a Qth Parameter

Void.

#### 9.2.2.34A RACH Sub Channel Numbers

Void.

#### 9.2.2.35 RL Set ID

The RL Set ID uniquely identifies one RL Set within a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RL Set ID			INTEGER (031)	

#### 9.2.2.35a 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	Criticality	Assigned Criticality
RL Specific E-DCH Information		1 <maxnoof EDCHMACd Flows&gt;</maxnoof 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	-	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Bearer Not Requested Indicator	0		9.2.2.4S		YES	ignore
E-AGCH Power Offset	0		9.2.2.61		-	
E-RGCH Power Offset	0		9.2.2.62		_	
E-HICH Power Offset	0		9.2.2.63		-	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

#### 9.2.2.35A Received Total Wide Band Power

The parameter indicates the Received total wide band power in a cell, see ref. [11].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Received Total Wide Band Power			INTEGER(0. .621)	According to mapping in [23].

## 9.2.2.36 S-Field Length

Void.

- 9.2.2.36A Void
- 9.2.2.37 Scrambling Code Change

Void.

9.2.2.37A Scrambling Code Number

Void.

9.2.2.37B Secondary CCPCH Info

Void.

9.2.2.38 Secondary CCPCH Slot Format

Void.

## 9.2.2.38A Secondary CPICH Information

The Secondary CPICH Information IE provides the information on the Secondary CPICH when it can be used for channel estimation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Scrambling Code	Μ		9.2.2.11	
FDD DL Channelisation Code Number	М		9.2.2.14	

## 9.2.2.38B 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 Information Change	М			
>New Secondary CPICH				
>>Secondary CPICH Information	М		9.2.2.38A	
>Secondary CPICH Shall Not Be Used			NULL	

## 9.2.2.38C Serving E-DCH RL

The Serving E-DCH RL IE indicates whether the Serving E-DCH RL is in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Serving E-DCH RL	М			
>Serving E-DCH RL in this DRNS				
>>Serving E-DCH RL ID	М		RL ID 9.2.1.49	
>Serving E-DCH RL not in this DRNS			NULL	

#### 9.2.2.39 Slot Number (SN)

Void

9.2.2.39a Split Type

Void.

#### 9.2.2.39A SRB Delay

Indicates the number of frames after the PC Preamble period during which transmission of data on some RRC Signalling Bearers shall be prohibited by UE in accordance with ref. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SRB Delay			INTEGER(0. .7,)	In number of frames.

#### 9.2.2.40 SSDT Cell Identity

Void.

9.2.2.40A SSDT Cell Identity for EDSCHPC

Void.

9.2.2.41 SSDT Cell Identity Length

Void.

## 9.2.2.42 SSDT Indication

Void.

## 9.2.2.43 SSDT Support Indicator

The possibility to use SSDT Support Indicator has been removed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SSDT Support Indicator			ENUMERAT ED(Not Used, SSDT not supported).	The SSDT Support Indicator IE shall never be set to "Not Used".

#### 9.2.2.44 STTD Indicator

Void.

## 9.2.2.45 STTD Support Indicator

The STTD Support Indicator indicates whether the STTD can be applied to DL DPCH and F-DPCH in the cell or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
STTD Support Indicator			ENUMERAT ED(STTD	
			Supported, STTD not	
			Supported).	

## 9.2.2.45A 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,)	

## 9.2.2.46 TFCI Signalling Mode

This parameter indicates has only one value with any meaning.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TFCI Signalling Mode			ENUMERAT ED(Normal, Not Used)	The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.

## 9.2.2.46A TFCI PC Support Indicator

Void.

## 9.2.2.47 Transmission Gap Distance (TGD)

Void.

## 9.2.2.47A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Information		1 <maxtgps></maxtgps>		
>TGPSI Identifier	М		INTEGER(1. . <maxtgps &gt;)</maxtgps 	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(0. .14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	М		INTEGER(1. .14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	0		INTEGER(1. .14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		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		ENUMERAT ED(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		ENUMERAT ED(not Used, SF/2, higher layer scheduling, )	Method for generating downlink compressed mode gap The <i>Downlink Compressed</i> <i>Mode Method</i> IE shall never be set to "not Used".
>Uplink Compressed Mode Method	C-UL		ENUMERAT ED(SF/2, higher layer scheduling, )	Method for generating uplink compressed mode gap.
>Downlink Frame Type	М		ENUMERAT ED(A, B,)	Defines if frame type "A" or "B" shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER(0. .30)	Delta in SIR target value to be set in the DRNS 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) Step 0.1 dB, Range 0-3dB
>DeltaSIRafter1	Μ		INTEGER (030)	Delta in SIR target value to be set in the DRNS one frame after

			the frame containing the start of the first transmission gap in the transmission gap pattern,. Step 0.1 dB, Range 0-3dB
>DeltaSIR2	0	INTEGER (030)	Delta in SIR target value to be set in the DRNS 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. Step 0.1 dB, Range 0-3dB
>DeltaSIRafter2	0	INTEGER (030)	Delta in SIR target value to be set in the DRNS one frame after the frame containing the start of the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1 dB, Range 0-3dB

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.

## 9.2.2.47B Transmission Gap Pattern Sequence Scrambling Code Information

This IE indicates whether or not the alternative scrambling code will be used in the DRNS for the Downlink compressed mode method "SF/2" in the Transmission Gap Pattern Sequence. For details see ref. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transmission Gap Pattern Sequence Scrambling Code Information			ENUMERAT ED(code change, no code change)	Code change = alternative scrambling code will be used.

#### 9.2.2.48 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			ENUMERAT	
				ED(active,	
				inactive)	

## 9.2.2.49 Transmit Gap Length (TGL)

Void

#### 9.2.2.50 Tx Diversity Indicator

The Tx Diversity Indicator indicates if the following conditions are satisfied:

- Primary CPICH is broadcast from two antennas
- STTD is applied to Primary CCPCH
- TSTD is applied to Primary SCH and Secondary SCH

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Tx Diversity Indicator			ENUMERAT	
-			ED(true,	
			false).	

#### 9.2.2.50A UE Support Of Dedicated Pilots For Channel Estimation

Void.

#### 9.2.2.50B UE Support Of Dedicated Pilots For Channel Estimation Of HS-DSCH

Void.

9.2.2.51 UL/DL Compressed Mode Selection

Void

#### 9.2.2.52 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [8].

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.

#### 9.2.2.52A UL DPDCH Indicator for E-DCH operation

This IE indicated whether the requested configuration actually contain an UL DPDCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL DPDCH Indicator for E-			ENUMERAT	
DCH operation			ED (UL-	
			DPDCH	
			present, UL-	
			DPDCH not	
			present)	

## 9.2.2.53 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 (0 2 <sup>24</sup> -1)	
UL Scrambling Code Length	М		ENUMERAT ED(Short, Long)	

#### 9.2.2.54 Uplink Delta SIR

Void

#### 9.2.2.55 Uplink Delta SIR After

Void

## 9.2.2.56 DPC Mode Change Support Indicator

The DPC Mode Change Support Indicator IE indicates that the particular cell is capable to support DPC mode change.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DPC Mode Change Support Indicator			ENUMERATTE D (DPC Mode	
			Change Supported)	

#### 9.2.2.57 HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as described in ref [10].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERATED(mod e0, mode1)	"mode0" means HARQ Preamble Mode =0 "mode1" means HARQ Preamble Mode =1

## 9.2.2.58 HARQ Preamble Mode Activation Indicator

The HARQ Preamble Activation Indicator indicates if the configured HARQ Preamble Mode has been activated in the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
HARQ Preamble Mode			ENUMERAT	
Activation Indicator			ED(HARQ	
			Preamble	
			Mode	
			Activated).	

## 9.2.2.59 Frequency Band Indicator

The Frequency Band Indicator IE indicates frequency band as defined in [6].

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Frequency Band Indicator			ENUMERAT	
			ED (Band I,	
			Band II,	
			Band III,	
			Band IV,	
			Band V,	
			Band VI,	
			Band VII,	
			Band VIII,	
			Band IX,	
			Band X,	
			Band XI,	
			Band XII,	
			Band XIII,	
			Band XIV,	
			Band XV,	
			Band XVI,	
			Band XVII,	
			Band XVIII,	
			Band XIX,	
			Band XX,	
			Band XXI,	
			Band	
			XXII,)	

#### 9.2.2.60 E-RGCH Release Indicator

Indicates that the E-RGCH is released..

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH Release Indicator			ENUMERATED (E- RGCH released)	

## 9.2.2.61 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

## 9.2.2.62 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	Unit: dB
			(0255,)	Range: -32 +31.75 dB
				Step: 0.25 dB

## 9.2.2.63 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 (0255,)	Unit: dB Range: -32 +31.75 dB Step: 0.25 dB

## 9.2.2.64 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 [41]).

## 9.2.2.65 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			INTEGER	Refers to an index in the "SG-
Threshold			(037)	Table" (see [41]).

## 9.2.2.66 HARQ Info for E-DCH

The HARQ Info for E-DCH 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 [9]

#### 9.2.2.67 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)	

## 9.2.2.68 E-RGCH and E-HICH Channelisation Code Validity Indicator

The *E*-*RGCH* and *E*-*HICH* Channelisation Code Validity Indicator parameter indicates if the *E*-*RGCH* and *E*-*HICH* Channelisation Code IE shall be ignored in the *E*-*DCH* FDD DL Control Channel Information IE in which the *E*-*RGCH* and *E*-*HICH* Channelisation Code Validity Indicator IE was included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-RGCH and E-HICH			ENUMERATED	
Channelisation Code Validity			(E-RGCH and E-	
Indicator			<b>HICH</b> Channelisation	
			Code not valid)	

#### 9.2.2.69 E-DCH Minimum Set E-TFCI Validity Indicator

The *E-DCH Minimum Set E-TFCI Validity Indicator* parameter indicates if the *E-DCH Minimum Set E-TFCI* IE shall be ignored in the *E-DCH Transport Format Combination Set Information* IE in which the *E-DCH Minimum Set E-TFCI Validity Indicator* IE was included.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH Minimum Set E-TFCI Validity Indicator			ENUMERATED (E-DCH Minimum	
			Set E-TFCI not valid)	

#### 9.2.2.70 Fast Reconfiguration Mode

The *Fast Reconfiguration Mode* IE is used to notify the DRNS 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)	

#### 9.2.2.71 Fast Reconfiguration Permission

The *Fast Reconfiguration Permission* IE is used to indicate to the SRNC that the DRNS 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			ENUMERATED (	
Permission			Allowed)	

#### 9.2.2.72 Continuous Packet Connectivity DTX-DRX Information

The *Continuous Packet Connectivity DTX-DRX Information* IE defines the parameters used for Continuos Packet Connectivity DTX-DRX operation (see ref. [10]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE DTX DRX Offset	М		INTEGER (0159)	Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI
Enabling Delay	М		ENUMERATED (0,	Units of radio frames

			1, 2, 4, 8, 16, 32, 64,	
DTX Information		1	128)	
>CHOICE E-DCH TTI	М	1		
	IVI			
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	М		ENUMERATED (1, 4, 8, 16, 32, 64, 128, 256)	Units of E-DCH TTIs
>UE DTX Long Preamble	М		ENÚMERATED (2,4,15)	Units of slots
>MAC Inactivity Threshold	M		ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, Infinity)	Units of E-DCH TTIs
>CQI DTX Timer	M		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		ENUMERATED (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	М		ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512)	Units of subframes
>Inactivity Threshold for UE Grant Monitoring	Μ		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.

# 9.2.2.73 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 UE 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	0		
Modify			
>Modify >>CHOICE E-DCH TTI	0		
Length			
>>>2ms			
>>>>UE DTX Cycle 1	0	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>>UE DTX Cycle 2	0	ENUMERATED (4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 128, 160)	Units of subframes
>>>MAC DTX Cycle	0	ENUMERATED (1, 4, 5, 8, 10, 16, 20)	Units of subframes
>>>10ms			
>>>UE DTX Cycle 1	0	ENUMERATED (1, 5, 10, 20)	Units of subframes
>>>UE DTX Cycle 2	0	ENUMERATED (5, 10, 20, 40, 80, 160)	Units of subframes
>>>MAC DTX Cycle	0	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			
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.

## 9.2.2.74 Continuous Packet Connectivity HS-SCCH less Information

The *Continuous Packet Connectivity HS-SCCH less Information* IE defines the parameters used for Continuos 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< th=""><th></th><th></th></maxno<>		
		ofHS-		
		DSCHTBS		

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		sHS- SCCHless >		
>Transport Block Size Index	Μ		INTEGER (1maxnoofHS-DSC HTBSs)	
>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

#### 9.2.2.75 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	М		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

Range Bound	Explanation
maxHS-PDSCHCodeNrComp	Maximum number of codes at the defined spreading factor, within the
	complete code tree

### 9.2.2.75A Continuous Packet Connectivity HS-SCCH Less Deactivate Indicator

The Continuous Packet Connectivity HS-SCCH Less Deactivate Indicator IE is used to deactive HS-SCCH less operation.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Continuous Packet	М		NULL	
Connectivity HS-SCCH Less				
Deactivate Indicator				

#### 9.2.2.76 MIMO Activation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Activation Indicator	М		NULL	

#### 9.2.2.77 MIMO Mode Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
MIMO Mode Indicator	М		ENUMERATED (Activate, Deactivate)	

#### 9.2.2.78 MIMO Information Response

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Pilot Configuration	М			
>Primary and Secondary CPICH				
>Associated Secondary CPICH	М		Common Physical Channel ID 9.2.1.13	
>Normal and Diversity Primary CPICH			NULL	
MIMO N/M Ratio	М		ENUMERATED (1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10, 1/1,)	

#### 9.2.2.79 SixtyfourQAM DL Support Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixtyfourQAM DL Support Indicator			ENUMERATED (SixtyfourQAM DL Supported, SixtyfourQAM DL Not Supported)	

#### 9.2.2.79A 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	М		ENUMERATED (Allowed, Not- Allowed)	

# 9.2.2.79B 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)	

#### 9.2.2.80 Enhanced FACH Support Indicator

This IE indicates the Enhanced FACH Support.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced FACH Support Indicator			NULL	

#### 9.2.2.81 Enhanced PCH Support Indicator

Void.

### 9.2.2.82 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 Information		1 <maxno ofPrioQue</maxno 		
Drianita Quarta ID		ues>	0.0.4.454	
>Priority Queue ID	М		9.2.1.45A	
>Scheduling Priority Indicator	М		9.2.1.51A	
>T1	Μ		9.2.1.54A	
>MAC-ehs Reset Timer	Μ		9.2.2.89	
>Discard Timer	0		9.2.1.19C	
>MAC-hs Window Size	Μ		9.2.1.34C	
>Maximum MAC-d PDU Size	М		MAC PDU Size	
			Extended	
			9.2.1.34D	
>Maximum MAC-d PDU Size	М		MAC PDU Size	
Extended			Extended	
			9.2.1.34D	

Range Bound	Explanation
maxnoofPrioQueues	Maximum number of Priority Queues

#### 9.2.2.83 SixteenQAM UL Information

Void.

### 9.2.2.84 SixteenQAM UL Information To Modify

Void.

#### 9.2.2.85 F-DPCH Slot Format

The F-DPCH Slot Format IE defines the F-DPCH slot format for the TPC bits, as defined in [8].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format			INTEGER (09)	

# 9.2.2.86 F-DPCH Slot Format Support Request

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
F-DPCH Slot Format Support Request			NULL	

# 9.2.2.87 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	Μ		ENUMERATED (v5, v10, v20, v40, v64, v80, v128, v160,)	Units of subframes

### 9.2.2.88 Enhanced PCH Capability

This IE indicates the UE is capable of Enhanced PCH or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Enhanced PCH Capability			ENUMERATED (Enhanced PCH Capable, Enhanced PCH Not Capable)	

### 9.2.2.89 MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer(Treset) described in ref [41] 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

### 9.2.2.90 SixteenQAM UL Operation Indicator

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SixteenQAM UL Operation	0		ENUMERATED	
Indicator			(Activate,	
			Deactivate)	

# 9.2.2.91 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.

# 9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

#### 9.2.3.a Alpha Value

Used to support signalling of cell specific Alpha Value to SRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Alpha Value			ENUMERAT ED(0, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 1)	

### 9.2.3.A Block STTD Indicator

Void.

# 9.2.3.1 Burst Type

Void.

### 9.2.3.1a Cell Capability Container TDD

The Cell Capability Container TDD indicates which functionalities a 3.84Mcps TDD cell supports.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Cell Capability Container TDD			Reference BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Delayed Activation Support Indicator.
				The second bit: HS-DSCH Support Indicator. The third bit: DSCH Support Indicator. The fourth bit: Flexible MAC- d PDU Size Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

# 9.2.3.1b Cell Capability Container TDD LCR

The Cell Capability Container TDD LCR indicates which functionalities a cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container TDD LCR			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Delayed Activation Support Indicator. The second bit: HS-DSCH Support Indicator. The third bit: DSCH Support Indicator. The fourth bit: Flexible MAC- d PDU Size Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

### 9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CCTrCH ID			INTEGER (015)	

# 9.2.3.2A 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 Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	М		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_	
>>DCH ID	М		9.2.1.16		_	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped	-	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	-	
>>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>>Transport Format Set	М		9.2.1.64	For the UL.	-	
>>Transport Format Set	М		9.2.1.64	For the DL.	-	
>>BLER	М		9.2.1.4	For the UL.	-	
>>BLER	М		9.2.1.4	For the DL.	-	
>>Allocation/Retention Priority	М		9.2.1.1		_	
>>Frame Handling Priority	М		9.2.1.29		_	
>>QE-Selector	C- CoorDCH		9.2.1.46A		_	
>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	М		9.2.1.58A		YES	ignore
>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		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 <i>DCH Specific Info</i> IE is greater than 1).

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### 9.2.3.2B DCH TDD Information Response

Void

#### 9.2.3.2C DL Timeslot Information

The DL Timeslot Information IE provides information on the time slot allocation for a DL DPCH at 3.84Mcps.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	Μ		9.2.1.56		-	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TFCI Presence	Μ		9.2.1.55		_	
>DL Code Information	М		TDD DL Code Information 9.2.3.8C		-	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

### 9.2.3.2D DL Time Slot ISCP Info

The DL Time Slot ISCP Info IE gives interference level for each DL time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Time Slot ISCP Info		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
		ofDLts>				
>Time Slot	М		9.2.1.56		-	
>DL Timeslot ISCP	М		9.2.3.12		-	

Range bound	Explanation
maxnoofDLts	Maximum number of downlink time slots per Radio Link for
	3.84Mcps TDD.

# 9.2.3.2E DL Timeslot Information LCR

The DL Timeslot Information LCR IE provides information for DL Timeslot to be established for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information LCR		1 <maxnoof DLtsLCR&gt;</maxnoof 			Ι	
>Time Slot LCR	М		9.2.3.12a		-	
>Midamble Shift LCR	М		9.2.3.4C		-	
>TFCI Presence	М		9.2.1.57		1	
>DL Code Information LCR	М		TDD DL Code Information LCR 9.2.3.8D		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A	Maximum allowed power on DPCH	YES	ignore
>Minimum DL TX Power	0		DL Power 9.2.1.21A	Minimum allowed power on DPCH	YES	ignore

Range bound	Explanation
maxnoofDLtSLCR	Maximum number of Downlink time slots per Radio Link for
	1.28Mcps TDD.

# 9.2.3.2F 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 for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Time Slot ISCP Info LCR		1 <maxnooful tsLCR&gt;</maxnooful 			_	
>Time Slot LCR	М		9.2.3.12a			
>DL Timeslot ISCP	М		9.2.3.12			

Range bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD

#### 9.2.3.3 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)	

#### 9.2.3.3a 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 <maxno ofDSCHs&gt;</maxno 			-	
>DSCH ID	Μ		9.2.3.3ae		-	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCH Source Statistics Descriptor	Μ		9.2.1.65		-	
>Transport Format Set	Μ		9.2.1.64		_	
>Allocation/Retention Priority	Μ		9.2.1.1		_	
>Scheduling Priority Indicator	Μ		9.2.1.51A		_	
>BLER	Μ		9.2.1.4		-	
>Traffic Class	Μ		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore

Range bound	Explanation		
maxnoofDSCHs	Maximum number of DSCHs for one UE.		

# 9.2.3.3aa HS-DSCH TDD Information

The HS-DSCH TDD Information IE is used for initial addition of HS-DSCH information to a UE Context.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flows Information	М		9.2.1.30OA		-	
UE Capabilities Information		1			_	
>HS-DSCH Physical Layer Category	М		9.2.1.30Oa		_	
>1.28 Mcps TDD uplink physical channel capability	0		9.2.3.10D	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, Tree-six carrier, Six-six carrier, )	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
MAC-hs Reordering Buffer Size for RLC-UM	М		9.2.1.34Ab		-	
TDD ACK NACK Power Offset	Μ		9.2.3.71		_	
HS-DSCH MAC-d PDU Size Format	0		9.2.1.30OC	If not present, "Indexed MAC-d PDU Size" shall be used.	YES	reject
HS-SICH SIR Target	0		UL SIR 9.2.1.69	Applicable to 1.28Mcps TDD only	YES	ignore
HS-SICH TPC step size	0		9.2.3.10a	Applicable to 1.28Mcps TDD only	YES	ignore
TSN-Length	0		9.2.3.3ai	Applicable for 1.28Mcps TDD when using multiple frequencies	YES	reject

## 9.2.3.3ab HS-DSCH TDD Information Response

The *HS-DSCH TDD Information Response* IE provides information for HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the DRNS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
HS-DSCH MAC-d Flow		0	Reference			
Specific Information		0 <maxno ofMACdFl</maxno 			_	
Response	N.4	OWS>	0.04.000			
>HS-DSCH MAC-d Flow ID	M		9.2.1.300		-	
>Binding ID	0		9.2.1.3		—	
>Transport Layer Address	0		9.2.1.62		—	
>HS-DSCH Initial Capacity Allocation	0		9.2.1.30Na		_	
HS-SCCH Specific Information Response		0 <maxno ofHSSCC Hcodes&gt;</maxno 		Not applicable to 1.28 Mcps TDD or 7.68Mcps TDD	GLOBAL	reject
>Time Slot	М		9.2.1.56		-	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TDD Channelisation Code	М		9.2.3.8		_	
>HS-SICH Information		1			_	
>>HS SICH ID	М	1	9.2.3.3ad		_	
>>Time Slot	M	1	9.2.1.56		_	
>>Midamble Shift And Burst Type	M		9.2.3.4		-	
>>TDD Channelisation Code	М		9.2.3.8		_	
HS-SCCH Specific Information Response LCR		0 <maxno ofHSSCC Hcodes&gt;</maxno 		Not applicable to 3.84 Mcps TDD or 7.68Mcps TDD	GLOBAL	reject
>Time Slot LCR	Μ		9.2.3.12a		-	
>Midamble shift LCR	М		9.2.3.4C		-	
>First TDD Channelisation Code	М		TDD Channelisa tion Code 9.2.3.8		-	
>Second TDD Channelisation Code	M		TDD Channelisa tion Code 9.2.3.8		-	
>HS-SICH Information LCR	1	1			_	
>>HS SICH ID	М		9.2.3.3ad		_	
>>Time Slot LCR	M	1	9.2.3.12a		_	
>>Midamble shift LCR	M	1	9.2.3.4C		_	1
>>TDD Channelisation Code	M		9.2.3.8		_	
>Used Frequency	0		UARFCN 9.2.1.66	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		9.2.1.66	Corresponds to Nt (3GPP TS 25.105) Applicable	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			Kelerence	for 1.28Mcps TDD when using multiple frequencies.		
				See note1 below		
HS-SCCH Specific Information Response 7.68		0 <maxno ofHSSCC</maxno 		Applicable to 7.68 Mcps	YES	ignore
Mcps >Time Slot	M	Hcodes>	9.2.1.56	TDD only		
>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.23		-	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		_	
>HS-SICH Information		1			-	
>>HS SICH ID	М		9.2.3.3ad		_	
>>Time Slot	М	ļ	9.2.1.56		1	
>>Midamble Shift And Burst Type 7.68Mcps	M		9.2.3.23		-	
>>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		-	
HS-PDSCH Timeslot Specific Information Response		0 <maxno ofDLts&gt;</maxno 		Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>Time Slot	Μ		9.2.1.56		-	
>Midamble Shift And Burst Type	М		9.2.3.4		-	
HS-PDSCH Timeslot Specific Information Response LCR		0 <maxno ofDLtsLCR &gt;</maxno 		Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.	GLOBAL	reject
>Time Slot LCR	Μ		9.2.3.12a			
>Midamble Shift LCR	Μ		9.2.3.4C			
HS-PDSCH Timeslot Specific Information Response 7.68Mcps		0 <maxno ofDLts&gt;</maxno 		Applicable to 7.68Mcps TDD only.	YES	Ignore
>Time Slot	Μ		9.2.1.56		-	
>Midamble Shift And Burst Type 7.68Mcps	Μ		9.2.3.23		-	
HARQ Memory Partitioning User Plane Congestion Fields	0		9.2.1.116 9.2.1.70C		 YES	ignore
Inclusion HS-SCCH Specific Information Response LCR per UARFCN		0 <maxh SDPAFreq uency-1&gt;</maxh 		Applicable for 1.28Mcps TDD	GLOBAL	reject
>HS-SCCH Specific Information Response LCR		1 <maxno OfHSSCC</maxno 			-	
the Time Clath OD	N4	Hcodes>	0.0.0.40-			
>>Time Slot LCR >>Midamble Shift LCR	M		9.2.3.12a 9.2.3.4C			
>>First TDD Channelisation Code	M		TDD Channelisa tion Code 9.2.3.8			
>>Second TDD Channelisation Code	M		TDD Channelisa tion Code 9.2.3.8		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>HS-SICH Information LCR		1			-	
>>>HS SICH ID	М		9.2.3.3ad			
>>>Time Slot LCR	М		9.2.3.12a		-	
>>>Midamble Shift LCR	М		9.2.3.4C		-	
>>>TDD Channelisation Code	М		9.2.3.8		-	
>>Used Frequency	0		UARFCN 9.2.1.66	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		9.2.1.66	Corresponds to Nt □3GPP TS 25.105□ Applicable for 1.28Mcps TDD when using multiple frequencies. See note 1 below	YES	ignore
>HARQ Memory Partitioning per UARFCN		0 <maxh SDPAFreq uency-1&gt;</maxh 				
>>HARQ Memory Partitioning	0		9.2.1.116		_	
>UARFCN	0		9.2.1.66	Corresponds to Nt 3GPP TS 25.105 Applicable for 1.28Mcps TDD when using multiple frequencies. See note 1 below	YES	ignore
Multi-Carrier number	0		Integer(1 maxHSDP AFrequenc y)	Applicable for 1.28Mcps TDD when using multiple frequencies.	YES	ignore

Note 1: This information element is a simplified representation of the ASN.1 description.

Range bound	Explanation
maxnoofMACdFlows	Maximum number of MAC-d flows.
maxnoofHSSCCHcodes	Maximum number of HS-SCCH codes.
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.
maxHSDPAFrequency	Maximum number of Frequency that UE can support HSDPA

### 9.2.3.3ac 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 presented.

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
HS-SCCH Code Change Indicator	0		9.2.1.30R		-	
TDD ACK NACK Power Offset	0		9.2.3.71		Ι	

### 9.2.3.3ad 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)	For 1.28Mcps TDD, the IE is INTEGER (0255). In ASN.1, it is presented by another IE for the value beyond the 31.

### 9.2.3.3ae DSCH ID

The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DSCH ID			INTEGER (0255)	

#### 9.2.3.3af DSCH Initial Window Size

Indicates the initial number of MAC-c/sh SDUs that may be transmitted before new credits are received from the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH Initial Window Size			INTEGER (1255)	Number of MAC-c/sh SDUs: 255 = Unlimited number of MAC-c/sh SDUs.

### 9.2.3.3ag DSCH Flow Control Information

The DSCH Flow Control Information IE provides flow control information for each scheduling priority class for the DSCH FP over Iur.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DSCH Flow Control Information		116			-	
>DSCH Scheduling Priority	М		Scheduling Priority Indicator 9.2.1.51A		_	
>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength&gt;</maxnb 			_	
>>MAC-c/sh SDU Length	Μ		9.2.1.34		_	
>DSCH Initial Window Size	0		9.2.3.3af		YES	ignore

Range bound	Explanation
maxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths.

#### 9.2.3.3ah DSCH-RNTI

DSCH-RNTI is the UE identifier allocated by DRNS to be used over the radio interface by UEs having one or several DSCHs and/or USCHs. It is unique within a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH-RNTI			INTEGER(0. .65535)	

#### 9.2.3.3ai TSN-Length

The IE indicates the TSN length.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSN-Length			ENUMERATED	
			(tsn-6bits, tsn-9bits)	

#### 9.2.3.3A Maximum Number of Timeslots

Defines the maximum number of timeslots the UE has the capability of receiving or transmitting. [3.84Mcps TDD and 7.68Mcps TDD – in a frame] [1.28Mcps TDD – in a subframe]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of			INTEGER	For 1.28Mcps TDD the values 7
Timeslots			(114)	through 14 are not used.

#### 9.2.3.3B Maximum Number of UL Physical Channels per Timeslot

Defines the maximum number of physical channels [3.84Mcps TDD and 7.68Mcps TDD – per frame] [1.28Mcps TDD – per subframe] that the UE is capable to transmit.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of UL			INTEGER	
Physical Channels per			(12)	
Timeslot				

### 9.2.3.3C Maximum Number of DL Physical Channels

Defines the maximum number of physical channels [3.84Mcps TDD – per frame] [1.28Mcps TDD – per subframe] that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL Physical Channels			INTEGER (1224)	For 1.28Mcps TDD the values 97 through 224 are not used.

#### 9.2.3.3D Maximum Number of DL Physical Channels per Timeslot

Defines the maximum number of physical channels per timeslot that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	
Physical Channels per			(116)	
Timeslot				

#### 9.2.3.4 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation.

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				
>Type 1				
>> Midamble Configuration Burst Type 1 And 3	М		ENUMERATED(4, 8, 16)	As defined in [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	
>Type 2				
>> Midamble Configuration Burst Type 2	М		ENUMERATED (3, 6)	As defined in [12]
>>Midamble Allocation Mode	M		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Short	C-UE		INTEGER (015)	
>Type 3				UL only
>> Midamble Configuration Burst Type 1 And 3	M		ENUMERATED (4, 8, 16)	As defined in [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	

Condition	Explanation
UE	The IE shall be present if the <i>Midamble Allocation</i> <i>Mode</i> IE is set to "UE-specific midamble".

# 9.2.3.4A Minimum Spreading Factor

Defines the minimum spreading factor the UE has the capability of receiving or transmitting.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading			INTEGER	
Factor			(116)	

#### 9.2.3.4B IPDL TDD parameters

The IPDL TDD Parameters IE provides the information for the IPDL Configuration applied in 3.84Mcps TDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP Spacing TDD	М		ENUMERAT ED(30,40,50 , 70, 100,)	See [22]
IP Start	М		INTEGER(0. .4095)	See [22]
IP Slot	М		INTEGER(0. .14)	See [22]
IP P-CCPCH	М		ENUMERAT ED(Switch off 1 frame, Switch off 2 frames)	See [22]
Burst mode parameters	0		9.2.1.4B	

#### 9.2.3.4Bb IPDL TDD parameters LCR

The *IPDL TDD Parameters LCR* IE provides the information for the IPDL Configuration applied in 1.28Mcps TDD mode.

IE/Group name	Presence	Range	IE Type and Reference	Semantics Description
IP Spacing TDD	М		ENUMERAT ED(30,40,50 , 70, 100,)	See [22]
IP Start	М		INTEGER(0. .4095)	See [22]
IP_Sub	М		ENUMERAT ED(First,Sec ond,Both)	See [22]
Burst mode parameters	0		9.2.1.4B	

### 9.2.3.4C 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	M		ENUMERAT ED(Default midamble, Common midamble, UE specific midamble,)	
Midamble Shift Long	C-UE		INTEGER(0. .15)	
Midamble Configuration LCR	М		ENUMERAT ED (2, 4, 6, 8, 10, 12, 14, 16,)	As defined in [12]

Condition	Explanation
UE	The IE shall be present if the Midamble Allocation
	Mode IE is set to "UE-specific midamble".

### 9.2.3.4D Neighbouring TDD Cell Information LCR

Void

#### 9.2.3.5 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. [14].

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. [24].

#### 9.2.3.5a Primary CCPCH RSCP Delta

Primary CCPCH RSCP Delta is the offset used to report the negative reporting range of P-CCPCH RSCP as per [24].

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

#### 9.2.3.5A PRACH Midamble

Void.

#### 9.2.3.5B RB Identity

The RB Identity is the identifier of a radio bearer. It is unique for each active Radio bearer among the active radio bearers simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
RB Identity			INTEGER (031)	In line with [16], ch. 10.3.4.11

#### 9.2.3.6 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. [16].

[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. [16].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Length			INTEGER(163 )	

### 9.2.3.7 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. [16].

[1.28Mcps TDD- When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Period represents the number of consecutiveSubframes, i.e. 5ms after which the same assignment scheme of Time Slots to a Physical Channel is repeated see ref. [16].]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Repetition Period			ENUMERATED	
			(1,2,4,8,16,32,6 4)	

### 9.2.3.7A Rx Timing Deviation

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value. For 1.28Mcps TDD this IE must be set to 0.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER (0127)	As specified in [5], ch. 6.2.7.6

# 9.2.3.7B Secondary CCPCH Info TDD

The *Secondary CCPCH Info TDD* IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	М		9.2.1.63	For the DL.	_	
TFCI Coding	M		9.2.3.11	TOT THE DE.	_	
Secondary CCPCH		0 <maxno ofSCCPC Hs&gt;</maxno 			_	
>Time Slot	Μ		9.2.1.56		_	
>Midamble Shift And Burst Type	М		9.2.3.4		_	
>TFCI Presence	Μ		9.2.1.55		_	
>Secondary CCPCH TDD Code Information	М		9.2.3.7C		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	Μ		9.2.3.6		_	
>Repetition Period	Μ		9.2.3.7		-	
FACH		0maxnoo fFACHs			_	
>TFS	Μ		9.2.1.64	For the DL.	-	
PCH		01			-	
>TFS	М		9.2.1.64	For the DL.	_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of Secondary CCPCHs per CCTrCH.
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.

# 9.2.3.7C Secondary CCPCH TDD Code Information

The Secondary CCPCH TDD Code Information IE provides TDD Channelisation Code information for all SCCPCHs of one Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information		1 <maxno OfSCCPC Hs&gt;</maxno 			-	
>TDD Channelisation Code	М		9.2.3.8		_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of SCCPCHs for one CCTrCH.

### 9.2.3.7D 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			<i>INTEGE</i> R(1, 2,, 256)	Number of frames between special burst transmissions
				during DTX

### 9.2.3.7E Synchronisation Configuration

The Synchronisation Configuration parameters that are used by the DRNS in the Radio Link Failure/Restore procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_INSYNC_IND	М		<i>INTEGE</i> R(1, 2,, 256)	
N_OUTSYNC_IND	М		<i>INTEGE</i> R(1, 2,, 256)	
T_RLFAILURE	М		ENUMERAT ED(0, 0.1, 0.2,, 25.5)	Unit: seconds

### 9.2.3.7F Secondary CCPCH Info TDD LCR

The Secondary CCPCH Info TDD LCR IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	Μ		9.2.1.63	For the DL.	-	
TFCI Coding	М		9.2.3.11		-	
Secondary CCPCH		0 <maxno ofSCCPC Hs&gt;</maxno 			-	
>Time Slot LCR	Μ		9.2.3.12a		-	
>Midamble Shift LCR	М		9.2.3.4C		-	
>TFCI Presence	М		9.2.1.55		_	
>Secondary CCPCH TDD Code Information LCR	М		9.2.3.7G		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	М		9.2.3.6		_	
>Repetition Period	М		9.2.3.7		_	
FACH		0 <maxno ofFACHs&gt;</maxno 			_	
>TFS	М		9.2.1.64	For the DL.	_	
РСН		01			_	
>TFS	М		9.2.1.64	For the DL.	_	

Range bound	Explanation			
maxnoofSCCPCHs	Maximum number of Secondary CCPCHs per CCTrCH.			
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.			

# 9.2.3.7G Secondary CCPCH TDD Code Information LCR

The *Secondary CCPCH TDD Code Information LCR* IE provides LCR TDD Channelisation Code information for all SCCPCHs of one Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information		1 <maxno OfSCCPC Hs&gt;</maxno 			_	
>TDD Channelisation Code LCR	М		9.2.3.8a		-	
>SCCPCH Time Slot Format LCR	М		TDD DL DPCH Time Slot Format LCR 9.2.3.8E		_	

Range bound	Explanation
maxnoofSCCPCHs	Maximum number of SCCPCHs for one CCTrCH.

# 9.2.3.7H Support of 8PSK

The Support of 8PSK IE indicates whether 8PSK is supported or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Support of 8PSK			ENUMERAT	
			ED(supported	
			)	

# 9.2.3.7I 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 [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD ACK NACK Power			INTEGER (-	Unit: dB
Offset			78,)	Range: -7+8 dB
				Step: 1 dB

#### 9.2.3.8 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),)	

### 9.2.3.8a 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	M		ENUMERAT ED((1/1), (2/1), (2/2), (4/1),(4/4), (8/1), (8/8), (16/1)	
Modulation	М		(16/16) , ) ENUMERAT ED(QPSK, 8PSK,)	Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD

### 9.2.3.8A 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. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Offset Type				
>Initial Offset				
>>TDD DPCH Offset Value	Μ		INTEGER	
			(0255)	
>No Initial Offset				
>>TDD DPCH Offset Value	Μ		INTEGER	
			(063)	

### 9.2.3.8B TDD DCHs To Modify

The TDD DCHs To Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DCHs To Modify		1 <maxno ofDCHs&gt;</maxno 			-	
>UL FP Mode	0		9.2.1.67		-	
>ToAWS	0		9.2.1.58		-	
>ToAWE	0		9.2.1.57		-	
>Transport Bearer Request Indicator	Μ		9.2.1.61		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	Μ		9.2.1.16		-	
>>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the DCH is mapped.	_	
>>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	0		9.2.1.64	For the UL.	_	
>>Transport Format Set	0		9.2.1.64	For the DL.	_	
>>Allocation/Retention Priority	0		9.2.1.1		-	
>>Frame Handling Priority	0		9.2.1.29		-	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### 9.2.3.8C TDD DL Code Information

The TDD DL Code Information IE provides TDD DL Code information for all DPCHs of one DL Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information		1 <maxno OfDPCHs</maxno 			-	
		>				
>DPCH ID	Μ		9.2.3.3		-	
>TDD Channelisation Code	Μ		9.2.3.8		_	

Range bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.

### 9.2.3.8D TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information LCR		1 <maxnoof DPCHLCR &gt;</maxnoof 			_	
>DPCH ID	М		9.2.3.5		_	
>TDD Channelisation Code LCR	Μ		9.2.3.8a		_	
> TDD DL DPCH Time Slot Format LCR	Μ		9.2.3.8E		_	

Range bound	Explanation
maxnoOfDPCHLCR	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD

# 9.2.3.8E 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. [12]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Modulation				
> QPSK				
>>QPSK TDD DL DPCH TimeSlot Format LCR	М		INTEGER (024,)	
> 8PSK				
>>8PSK TDD DL DPCH TimeSlot Format LCR	М		INTEGER (024,)	

#### 9.2.3.9 TDD Physical Channel Offset

The TDD Physical Channel Offset represents the phase information for the allocation of a non DPCH physical channel. (CFN mod Repetition Period = TDD Physical Channel Offset) see ref. [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Physical Channel Offset			INTEGER (063)	

### 9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment (see ref [22]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Downlink Step			ENUMERAT	Unit: dB
Size			ED(1, 2,	
			3,)	

### 9.2.3.10a TDD TPC Uplink Step Size

This parameter indicates step size for the UL power adjustment (see ref [22]).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD TPC Uplink Step Size			ENUMERAT ED (1, 2, 3,)	Unit: dB

#### 9.2.3.10A TDD UL Code Information

The TDD UL Code Information IE provides TDD UL Code information for all DPCHs of one UL Time Slot.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information		1 <maxno OfDPCHs</maxno 			-	
		>				
>DPCH ID	Μ		9.2.3.3		_	
>TDD Channelisation Code	М		9.2.3.8		_	

Range bound	Explanation
maxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.

### 9.2.3.10B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information LCR		1 <maxno OfDPCH LCR&gt;</maxno 			_	
>DPCH ID	М		9.2.3.5		-	
>TDD Channelisation Code LCR	М		9.2.3.8a		-	
> TDD UL DPCH Time Slot Format LCR	М		9.2.3.10C		_	

Range bound	Explanation
maxnoOfDPCHLCR	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD.

# 9.2.3.10C 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. [12]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Modulation				
> QPSK				
>>QPSK TDD UL DPCH	М		INTEGER	
Time Slot Format LCR			(069,)	
> 8PSK				
>>8PSK TDD UL DPCH	М		INTEGER	
Time Slot Format LCR			(024,)	

#### 9.2.3.10D 1.28 Mcps TDD uplink physical channel capability

*1.28 Mcps TDD uplink physical channel capability* IE defines the UE uplink physical channel capability for 1.28 Mcps TDD.

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	М		ENUMERATED (1,2,3,4)	

### 9.2.3.11 TFCI Coding

The TFCI Coding describes 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			ENUMERATE	
_			D(4, 8, 16,	
			32,)	

# 9.2.3.12 DL Timeslot ISCP

DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Timeslot ISCP			INTEGER( 091)	According to mapping in [24].

#### 9.2.3.12a 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)	

#### 9.2.3.12A Timing Advance Applied

Defines the need for Timing Advance functions such as Rx Timing Deviation measurement in a particular cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timing Advance Applied			ENUMERAT ED(Yes, No)	

#### 9.2.3.13 Transport Format Management

Defines whether the cell transmits the transport format information via broadcast or whether the transport format information is transmitted to the UE using dedicated RRC procedures

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Transport Format			ENUMERAT	
Management			ED(Cell	
_			Based, UE	
			Based,)	

## 9.2.3.13A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the DRNS, see ref. [14].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UL Timeslot ISCP			INTEGER( 0127)	According to mapping in [24].

### 9.2.3.13B 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			ENUMERAT ED(SF_Vari ation_suppor ted, SF_Variation _NOT_supp orted)	

### 9.2.3.13C UL Timeslot Information

The UL Timeslot Information IE provides information on the time slot allocation for a UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	Μ		9.2.1.56		-	
>Midamble Shift And Burst Type	M		9.2.3.4		_	
>TFCI Presence	М		9.2.1.55		-	
>UL Code Information	M		TDD UL Code Information 9.2.3.10A		_	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

#### 9.2.3.13D UL Time Slot ISCP Info

The UL Time Slot ISCP Info IE gives interference level for each UL time slot within the Radio Link.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Time Slot ISCP Info		1 <maxnoof ULts&gt;</maxnoof 			-	
>Time Slot	М		9.2.1.56		-	
>UL Timeslot ISCP	М		9.2.3.13A		-	

Range bound	Explanation
maxnoofULts	Maximum number of uplink time slots per Radio Link.

#### 9.2.3.13E TSTD Indicator

Indicates if TSTD shall be active or not for the DL DPCH.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
TSTD Indicator			ENUMERAT	
			ED(active,	
			inactive)	

### 9.2.3.13F TSTD Support Indicator

Indicates if UE support TSTD or not for DL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TSTD Support Indicator			ENUMERAT ED(TSTD supported, TSTD not supported)	

### 9.2.3.13Fa UE Measurement Hysteresis Time

The UE Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the UE Measurement Reporting procedure to be triggered, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement			INTEGER(0	Unit: dB
Hysteresis Time			15)	Range: 07.5 dB
				Step: 0.5 dB

#### 9.2.3.13Fb UE Measurement Parameter Modification Allowed

Indicates if the SRNC may modify the UE measurement parameters based on its existing measurement schedule.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement			ENUMERAT	
Parameter Modification			ED	
Allowed			(Parameter	
			Modification	
			Allowed,)	

# 9.2.3.13Fc UE Measurement Report Characteristics

The UE Measurement Report Characteristics, defines how the reporting shall be performed. For definition of the event criteria see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Report Characteristics				
>Periodic				
>>Amount of Reporting	М		ENUMERAT ED(1, 2, 4, 8, 16, 32, 64, infinity)	
>>Reporting Interval	М		ENUMERAT ED (250, 500, 1000, 2000, 3000, 4000, 6000, 8000, 12000, 16000, 20000, 24000, 28000, 32000, 64000)	Indicates the interval of periodical report interval in milliseconds
>Event 1h				
>>UE Measurement Threshold	М		9.2.3.13Fd	The threshold for which the DRNS shall trigger a measurement report.
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>>Hysteresis	М		9.2.3.13Fa	
>Event 1i				
>>UE Measurement Threshold	M		9.2.3.13Fd	The threshold for which the DRNS shall trigger a measurement report.
>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>>Hysteresis	М		9.2.3.13Fa	
>Event 6a				
>>UE Measurement Threshold	М		9.2.3.13Fd	
>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6b				
>>UE Measurement Threshold	М		9.2.3.13Fd	
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6c				
>>UE Measurement Time to Trigger	М		9.2.3.13Fg	
>Event 6d				
>UE Measurement Time to Trigger	М		9.2.3.13Fg	

# 9.2.3.13Fd UE Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event 1h, 1i, 6a or 6b, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE UE Measurement Threshold				
>Timeslot ISCP				
>>Timeslot ISCP	Μ		INTEGER (-11525)	In dBm
>UE Tx Power				
>>UE Transmitted Power	М		INTEGER(- 5033)	In dBm

#### 9.2.3.13Fe UE Measurement Timeslot Information HCR

The UE Measurement Time Slot Information IE provides information for DL timeslots for the UE to measure, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Timeslot Information		1 <maxnoofts></maxnoofts>		
>Time Slot	М		9.2.1.56	
>Burst Type	М		ENUMERAT ED(Type1, Type 2, Type 3,)	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE for 3.84Mcps TDD.

#### 9.2.3.13Ff UE Measurement Timeslot Information LCR

The UE Measurement Time Slot Information LCR IE provides information for DL timeslots for the UE to measure, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Time Slot Information LCR		1 <maxnooftslcr &gt;</maxnooftslcr 		
>Time Slot LCR	М		9.2.3.12a	

Range bound	Explanation
maxnoOfTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD

### 9.2.3.13Fg UE Measurement Time to Trigger

The UE time to trigger indicates the period of time between the timing of event detection and the timing of sending Measurement Report, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Time to trigger	М		ENUMERAT ED(0, 10, 20,	Time in ms.
			40, 60, 80,	
			100, 120,	
			160, 200,	

240, 320,
640, 1280,
2560, 5000)

### 9.2.3.13Fh UE Measurement Type

The UE Measurement Type identifies the type of measurement that shall be performed see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Type	Μ		ENUMERAT ED(Primary CCPCH RSCP, DL Timeslot ISCP, UE Transmitted	
			Power,)	

#### 9.2.3.13Fi UE Measurement Value

The UE 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
CHOICE UE Measurement Value	М			
>UE Transmitted Power				
>>UE Transmitted Power list HCR		0 <maxnoofts></maxnoofts>		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD
>>>Time Slot	Μ		9.2.1.56	
>>>UE Transmitted Power	M		INTEGER (0104)	According to mapping in [24] Values 020 are not used
>>UE Transmitted Power list LCR		0< maxnoOfTSLCR>		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
>>>Time Slot LCR	М		9.2.3.12a	
>>>UE Transmitted Power	M		INTEGER (0104)	According to mapping in [24] Values 020 are not used
>>UE Transmitted Power list 768		0 <maxnoofts></maxnoofts>		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD
>>>Time Slot	М		9.2.1.56	· ·
>>>UE Transmitted Power >P-CCPCH RSCP	М		INTEGER (0104)	According to mapping in [24] Values 020 are not used
>>Primary CCPCH RSCP	0		9.2.3.5	According to mapping in [24]
>>Primary CCPCH RSCP Delta	0		9.2.3.5a	According to mapping in [24]
>DL Timeslot ISCP				
>>Timeslot list HCR		0 <maxnoofts></maxnoofts>		Mandatory for 3.84Mcps TDD, not applicable to 1.28Mcps TDD or 7.68Mcps TDD
>>>Time Slot	М		9.2.1.56	
>>>Timeslot ISCP	М		9.2.3.12	

>>Timeslot list LCR		0 <maxnooftsl CR&gt;</maxnooftsl 		Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
>>>Time Slot LCR	М		9.2.3.12a	
>>>Timeslot ISCP	М		9.2.3.12	
>>Timeslot list 768		0 <maxnoofts></maxnoofts>		Mandatory for 7.68Mcps TDD, not applicable to 1.28Mcps TDD or 3.84Mcps TDD
>>>Time Slot	Μ		9.2.1.56	
>>>Timeslot ISCP	М		9.2.3.12	

Range bound	Explanation
maxnoOfTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD or
	7.68Mcps TDD.
maxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD.

# 9.2.3.13Fj UE Measurement Value Information

The *UE Measurement Value Information* IE provides information both on whether or not the UE Measurement Value is provided in the message and if provided also the UE Measurement Value itself.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement Availability Indicator	М			
>Measurement Available				
>>UE Measurement Value	М		9.2.3.13Fi	
>Measurement not Available			NULL	

# 9.2.3.13G UL Timeslot Information LCR

The UL Timeslot Information LCR IE provides information on the timeslot allocation for an UL DPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information LCR		1 <maxn oofULts LCR&gt;</maxn 			_	
>Time Slot LCR	М		9.2.3.12a		_	
>Midamble Shift LCR	М		9.2.3.4C		_	
>TFCI Presence	М		9.2.1.57		-	
>UL Code Information LCR	М		TDD UL Code Information LCR 9.2.3.10B			
>PLCCH Information	0		9.2.3.17		YES	ignore

Range bound	Explanation
maxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for 1.28Mcps
	TDD.

# 9.2.3.13H UL Time Slot ISCP Info LCR

The *UL Time Slot ISCP Info LCR* IE provides information for UL Interference level for each time slot within the Radio Link for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Time Slot ISCP Info		1 <maxnooful tsLCR&gt;</maxnooful 			_	
>Time Slot LCR	М		9.2.3.12a		_	
>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		

#### 9.2.3.13I 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 frequency			INTEGER (18)	Unit: subframe, step: 1

#### 9.2.3.13J 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.

### 9.2.3.13K Uplink Timing Advance Control LCR

The Uplink Timing Advance Control LCR indicates the parameters which are used to support Uplink Synchronisation for the UE in 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
SYNC UL codes bitmap	М		BITSTRING (8)	Each bit indicates the availability of a SYNC_UL code.
FPACH info		1		
>Time Slot LCR	М		9.2.3.12a	
>TDD Channelisation Code LCR	М		9.2.3.8a	
>Midamble Shift LCR	М		9.2.3.4C	
>WT	М		INTEGER (14)	Maximum number of subframes to wait for transmission of FPACH.
PRXupPCHdes	М		INTEGER (-120 – 58,)	Desired UpPCH receive power. Unit: dBm Step size: 1
SYNC UL procedure parameters		1		
>Maximum Sync UL transmissions	М		ENUMERATED (1,2,4,8,)	
>Power Ramp Step	М		INTEGER (03,)	
Mmax	М		INTEGER (132)	Maximum number of synchronisation attempts

## 9.2.3.14 USCH ID

The USCH ID is the identifier of an uplink shared channel. It is unique among the USCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
USCH ID			INTEGER (0255)	

## 9.2.3.15 USCH Information

The USCH Information IE provides information for USCHs to be established.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCH Information		1 to <maxnoofu SCHs&gt;</maxnoofu 			-	
>USCH ID	Μ		9.2.3.14		-	
>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the USCH is mapped	_	
>TrCH Source Statistics Descriptor	М		9.2.1.65		-	
>Transport Format Set	Μ		9.2.1.64	For USCH	-	
>Allocation/Retention Priority	Μ		9.2.1.1		-	
>Scheduling Priority Indicator	М		9.2.1.51A		-	
>RB Info		1 <maxnoof RB&gt;</maxnoof 		All Radio Bearers using this USCH	_	
>>RB Identity	М		9.2.3.5B		_	
>Traffic class	Μ		9.2.1.58A		YES	ignore
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishme nt with ALCAP.	YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofUSCHs	Maximum number of USCHs for one UE.
maxnoofRBs	Maximum number of Radio Bearers for one UE.

## 9.2.3.16 Support of PLCCH

The Support of PLCCH IE indicates whether PLCCH is supported or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Support of PLCCH			ENUMERAT	
			ED(supported	
			)	

## 9.2.3.17 PLCCH Information

The PLCCH Information IE carres a PLCCH assignment for a timeslot of an UL DCH-type CCTrCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
TDD Channelisation Code	М		9.2.3.8	Only QPSK modulation is used with PLCCH
Time Slot LCR	М		9.2.3.12a	
Midamble Shift LCR	М		9.2.3.4C	
PLCCH Sequence Number	М		9.2.3.18	

#### 9.2.3.18 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)	

#### 9.2.3.19 Minimum Spreading Factor 7.68Mcps

Defines the minimum spreading factor the UE has the capability of receiving or transmitting for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Minimum Spreading Factor 768			INTEGER (132)	

#### 9.2.3.20 Maximum Number of DL Physical Channels 7.68Mcps

Defines the maximum number of physical channels for 7.68Mcps TDD – per frame that the UE is capable to receive.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	
Physical Channels 768			(1448)	

### 9.2.3.21 Maximum Number of DL Physical Channels per Timeslot 7.68Mcps

Defines the maximum number of physical channels per timeslot that the UE is capable to receive for 7.68 Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Maximum Number of DL			INTEGER	
Physical Channels per			(132)	
Timeslot 768				

## 9.2.3.22 Secondary CCPCH Info 7.68Mcps TDD

The *Secondary CCPCH Info* 7.68*Mcps TDD* IE provides information on the Secondary CCPCH that carries the logical channel SHCCH for the UE for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TFCS	М		9.2.1.63	For the DL.	_	
TFCI Coding	М		9.2.3.11		_	
Secondary CCPCH		0 <maxno ofSCCPC Hs768&gt;</maxno 			-	
>Time Slot	М		9.2.1.56		_	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		_	
>TFCI Presence	М		9.2.1.55		-	
>Secondary CCPCH TDD Code Information 7.68Mcps	М		9.2.3.24		_	
>TDD Physical Channel Offset	М		9.2.3.9		_	
>Repetition Length	М		9.2.3.6		-	
>Repetition Period	М		9.2.3.7		-	
FACH		0maxnoo fFACHs			-	
>TFS	М		9.2.1.64	For the DL.	_	
PCH		01			_	
>TFS	М		9.2.1.64	For the DL.	_	

Range bound	Explanation
maxnoofSCCPCHs768	Maximum number of Secondary CCPCHs per CCTrCH.
maxnoofFACHs	Maximum number of FACHs mapped onto a Secondary CCPCH.

#### 9.2.3.23 Midamble Shift And Burst Type 7.68Mcps

This information element indicates burst type and midamble allocation 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				
>Type 1				
>> Midamble Configuration Burst Type 1 And 3	M		ENUMERATED(4, 8, 16)	As defined in [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	
>Type 2				
>> Midamble Configuration Burst Type 2	M		ENUMERATED (4, 8)	As defined in [12]
>>Midamble Allocation Mode	М		ENUMERATED(Defa ult midamble, Common midamble, UE specific midamble)	
>>Midamble Shift Short	C-UE		INTEGER (07)	
>Type 3				UL only
>> Midamble Configuration Burst Type 1 And 3	M		ENUMERATED (4, 8, 16)	As defined in [12]
>>Midamble Allocation Mode	M		ENUMERATED(Defa ult midamble, UE specific midamble)	
>>Midamble Shift Long	C-UE		INTEGER(015)	

	Condition	Explanation
UE		The IE shall be present if the Midamble Allocation
		Mode IE is set to "UE-specific midamble".

## 9.2.3.24 Secondary CCPCH TDD Code Information 7.68Mcps

The *Secondary CCPCH TDD Code Information 7.68Mcps* IE provides TDD Channelisation Code information for all SCCPCHs of one Time Slot for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Secondary CCPCH TDD Code Information 7.68Mcps		1 <maxno OfSCCPC Hs768&gt;</maxno 			_	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		_	

Range bound	Explanation
maxnoofSCCPCHs768	Maximum number of SCCPCHs for one CCTrCH.

## 9.2.3.25 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.

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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),)	

#### 9.2.3.26 UL Timeslot Information 7.68Mcps

The UL Timeslot Information IE provides information on the time slot allocation for a UL DPCH for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UL Timeslot Information		1 <maxno OfTS&gt;</maxno 			_	
>Time Slot	М		9.2.1.56		-	
>Midamble Shift And Burst Type 7.68Mcps	Μ		9.2.3.23		-	
>TFCI Presence	М		9.2.1.55		-	
>UL Code Information 7.68Mcps	M		TDD UL Code Information 7.68Mcps 9.2.3.27		_	

Range bound	Explanation			
maxnoofTSs	Maximum number of Timeslots for a UE.			

#### 9.2.3.27 TDD UL Code Information 7.68Mcps

The *TDD UL Code Information 7.68Mcps* IE provides TDD UL Code information for all DPCHs of one UL Time Slot for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD UL Code Information		1 <maxno OfDPCHs 768&gt;</maxno 			-	
>DPCH ID	М		9.2.3.3		-	
>TDD Channelisation Code 7.68Mcps	М		9.2.3.25		_	

Range bound	Explanation
maxnoofDPCHs768	Maximum number of DPCHs for one CCTrCH.
k	

#### 9.2.3.28 DL Timeslot Information 7.68Mcps

The *DL Timeslot Information 7.68Mcps* IE provides information on the time slot allocation for a DL DPCH for 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DL Timeslot Information		1 <maxno OfTS&gt;</maxno 			-	
>Time Slot	М		9.2.1.56		-	
>Midamble Shift And Burst Type 7.68Mcps	М		9.2.3.23		Ι	
>TFCI Presence	М		9.2.1.55		-	
>DL Code Information 7.68Mcps	M		TDD DL Code Information 7.68Mcps 9.2.3.29		_	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE.

#### 9.2.3.29 TDD DL Code Information 7.68Mcps

The *TDD DL Code Information* IE provides TDD DL Code information for all DPCHs of one DL Time Slot for 7.68Mpcs TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
TDD DL Code Information		1 <maxno OfDPCHs 768&gt;</maxno 			-	
>DPCH ID	Μ		9.2.3.3		_	
>TDD Channelisation Code 7.68Mcps	Μ		9.2.3.25		-	

Range bound	Explanation
maxnoofDPCHs768	Maximum number of DPCHs for one CCTrCH.

## 9.2.3.30 Rx Timing Deviation 7.68Mcps

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value..

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER (01023)	As specified in [5]

## 9.2.3.31 Cell Capability Container 7.68 Mcps TDD

The Cell Capability Container 7.68 McpsTDD indicates which functionalities a cell supports.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Capability Container TDD			BIT STRING (32)	Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Delayed Activation Support Indicator. The second bit: HS-DSCH Support Indicator. The third bit: DSCH Support Indicator. The fourth bit: Flexible MAC- d PDU Size Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

## 9.2.3.32 Neighbouring TDD Cell Measurement Information 7.68Mcps

This IE provides information on the 7.68Mcps 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
UTRAN Cell Identifier	Μ		9.2.1.71	
UARFCN	Μ		9.2.1.66	Corresponds to Nt [15]
Cell Parameter ID	Μ		9.2.1.8	
Time slot	0		9.2.1.56	
Midamble Shift And Burst Type 7.68Mcps	0		9.2.3.23	

## 9.2.3.33 UE Measurement Timeslot Information 7.68Mcps

The UE Measurement Time Slot Information IE provides information for DL timeslots for the UE to measure, see [16].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UE Measurement Timeslot Information		1 <maxnoofts></maxnoofts>		
>Time Slot	М		9.2.1.56	
>Burst Type	М		ENUMERATED (Type1, Type 2, Type 3,)	

Range bound	Explanation
maxnoofTSs	Maximum number of Timeslots for a UE for 7.68Mcps TDD.

## 9.2.3.34 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)	

#### 9.2.3.35 Rx Timing Deviation 3.84Mcps Extended

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value. This is used when the extended timing advance is in use at 3.84 Mcps.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Rx Timing Deviation			INTEGER (0511)	As specified in [5]

## 9.2.3.36 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]
N <sub>E-UCCH</sub>	М		INTEGER (112)	Number of slots that are required to carry TPC and TFCI (consecutively allocated slots beginning with the first).

## 9.2.3.36a 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	M		INTEGER (063)	Unit: - Range: 0.055 1 Step: 0.015	-	
Maximum code rate	М		INTEGER (063)	Unit: - Range: 0.0551 Step: 0.015	-	
HARQ Info for E-DCH	Μ		ENUMERAT ED (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	-	
E-PUCH TPC Step Size	М		9.2.3.10a		_	
NE-UCCH	М		INTEGER (18)	Number of E- UCCH and TPC instances within an E- DCH TTI. Details are described in [12].	_	
E-PUCH Power Control GAP	0		INTEGER (1255)	Unit: Number of subframes. Reference to E-PUCH Power Control for 1.28Mcps TDD in [22]. 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

# 9.2.3.37 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 <maxnoofrefbe tas&gt;</maxnoofrefbe 		
>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 <maxnoofrefbe tas&gt;</maxnoofrefbe 		
>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

# 9.2.3.38 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	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			_	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Allocation/Retentio n Priority	М		9.2.1.1		_	
>TNL QoS	0		9.2.1.56A		-	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishmen t with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishmen t with ALCAP.	_	
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>Maximum Number Of Retransmissions For E-DCH	М		9.2.1.100		-	
>E-DCH HARQ Power Offset TDD	М		9.2.3.49		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		-	
>E-DCH Grant Type	М		9.2.3.43		_	
>E-DCH Logical Channel Information	М		9.2.1.92		-	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.49a	Mandatory for LCR TDD. Not applicable for 3.84Mcps TDD and 7.68Mcps TDD.	YES	YES
>Traffic Class	М		9.2.1.58A		YES	ignore

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows

## 9.2.3.39 E-DCH Non-scheduled Grant Information TDD

The *E-DCH Non-scheduled Grant Information TDD* IE is used to specify the details of an non-scheduled grant for 3.84Mcps and 7.68Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.44	
Power Resource Related Information	М		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code	М		9.2.3.8	

#### 9.2.3.39a E-DCH Non-scheduled Grant Information LCR TDD

The *E-DCH Non-scheduled Grant Information LCR TDD* IE is used to specify the details of an non-scheduled grant for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information LCR	М		9.2.3.44a	
Power Resource Related Information	М		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
Subframe Number	Μ		ENUMERATED (0,1)	Used to indicate from which subframe of the Radio Frame indicated by <i>TDD E-</i> <i>PUCH Offset</i> IE the physical resources are assigned to the E-DCH Non-scheduled Grant.
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code	М		9.2.3.8	

## 9.2.3.40 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		9.2.3.47	
E-DCH Processing Overload Level	0		9.2.1.95	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96	

### 9.2.3.40a E-DCH TDD Information LCR

The *E-DCH TDD Information LCR* IE specifies the details of UE physical layer category, NodeB processing overload level and power offset, Maximum Number of Retransmission and E-DCH Retransmission timer for scheduling info.

IE/Group Name	Presenc e	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
E-DCH Physical Layer Category LCR	0		9.2.3.54	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.	_	Ontroanty
E-DCH Processing Overload Level	0		9.2.1.95		_	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96		_	
Extended E-DCH Physical Layer Category LCR	0		9.2.3.54A	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		9.2.1.100	-	YES	ignore
E-DCH Retransmission timer for Scheduling Info LCR	0		9.2.3.49a		YES	ignore

## 9.2.3.41 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
E-DCH MAC-d Flow		0 <maxnoofedc< td=""><td></td><td></td></maxnoofedc<>		
Specific Information		HMACdFlows>		
Response				
>E-DCH MAC-d Flow ID	Μ		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer	0		9.2.1.62	
Address				
E-AGCH Specific		0 <maxnoofeag< td=""><td></td><td></td></maxnoofeag<>		
Information Response		CHcodes>		
>Time Slot	М		9.2.1.56	
>Midamble Shift And	М		9.2.3.4	
Burst Type				
>TDD Channelisation	М		9.2.3.8	
Code				
E-HICH Information		01		
Response				
>Time Slot	М		9.2.1.56	
>Midamble Shift And	М		9.2.3.4	
Burst Type				
>TDD Channelisation	М		9.2.3.8	
Code				
>E-HICH Time Offset	М		9.2.3.48	
E-DCH Non-scheduled	0		9.2.3.39	
Grant Information TDD				
E-RNTI	0		9.2.1.94	

Range bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE

## 9.2.3.41a E-DCH TDD Information Response 1.28Mcps

Only for 1.28Mcps TDD. The *E-DCH TDD Information Response 1.28Mcps* 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
E-DCH MAC-d Flow Specific Information Response		0 <maxnoofedc HMACdFlows&gt;</maxnoofedc 		
>E-DCH MAC-d Flow ID	М		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer Address	0		9.2.1.62	
E-AGCH Specific Information Response		0 <maxnoofeag CHcodes&gt;</maxnoofeag 		
>Time Slot LCR	Μ		9.2.3.12a	
>Midamble Shift LCR	Μ		9.2.3.4C	
>TDD Channelisation Code	М		9.2.3.8	
E-HICH Scheduled specific Information Response		01		
>Scheduled		0< maxNoOfEHICHc odes>		
>>El	М		INTEGER (03)	E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried.
>>Time Slot LCR	М		9.2.3.12a	
>>Midamble Shift LCR	М		9.2.3.4C	
>>TDD Channelisation Code	М		9.2.3.8	
>Non-Scheduled		01		
>>Time Slot LCR	М		9.2.3.12a	
>>Midamble Shift LCR	М		9.2.3.4C	
>>TDD Channelisation Code	М		9.2.3.8	
>Signature Sequence Group Index	М		INTEGER (019)	
>E-HICH time offset LCR	М		9.2.3.48a	
E-DCH Non-scheduled Grant Information LCR TDD	0		9.2.3.39a	
E-RNTI	0		9.2.1.94	

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

## 9.2.3.42 E-DCH TDD Information to Modify

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	Criticality	Assigned Criticality
E-DCH MAC-d Flow Specific Information		1 <maxno ofEDCHM ACdFlows &gt;</maxno 			-	
>E-DCH MAC-d Flow ID	М		9.2.1.91		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>Binding ID	0		9.2.1.3	Shall be ignored if bearer establishment with ALCAP.	_	
>Transport Layer Address	0		9.2.1.62	Shall be ignored if bearer establishment with ALCAP.	_	
>TNL QoS	0		9.2.1.56A		_	
>Maximum Number Of Retransmissions For E-DCH	0		9.2.1.100		-	
>E-DCH HARQ Power Offset TDD	0		9.2.3.49		_	
>E-DCH MAC-d Flow Multiplexing List	0		9.2.1.89		_	
>E-DCH Grant Type	0		9.2.3.43		_	
>E-DCH Logical Channel To Add	0		E-DCH Logical Channel Information 9.2.1.92		_	
>E-DCH Logical Channel To Modify	0		9.2.1.93		_	
>E-DCH Logical Channel To Delete		0< maxnooflo gicalchann els>			_	
>>Logical Channel ID	М		9.2.1.97		_	
>E-DCH MAC-d Flow Retransmission Timer	0		9.2.3.49a	Applicable for 1.28Mcps TDD only	YES	ignore
>Traffic Class	0		9.2.1.58A		YES	ignore
MAC-e Reset Indicator	0		9.2.1.99		-	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows
maxnooflogicalchannels	Maximum number of logical channels

# 9.2.3.43 E-DCH Grant Type

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)	

## 9.2.3.44 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)	

## 9.2.3.44a Timeslot Resource Related Information LCR

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)	

## 9.2.3.45 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)	

## 9.2.3.46 E-PUCH Offset

The E-PUCH Offset represents the CFN offset at which an non-scheduled E-DCH grant begins.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-PUCH Offset			INTEGER (0255)	

## 9.2.3.47 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			INTEGER	Bitrate on transport block
Bitrate			(09201,)	level. Unit is kbits per
				second.

## 9.2.3.48 E-HICH Time Offset

The E-HICH Time Offset ( aka  $n_{E-HICH}$  [19]) is determined by the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-HICH Time Offset			INTEGER (444)	

## 9.2.3.48a E-HICH Time Offset LCR

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)	

### 9.2.3.49 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)	

### 9.2.3.49a E-DCH MAC-d Flow Retransmission Timer

The E-DCH MAC-d Flow Retransmission Timer IE is used in the E-DCH retransmission control as defined in ref. [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.

## 9.2.3.50 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 an non-scheduled grant for TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Timeslot Resource Related Information	М		9.2.3.44	
Power Resource Related Information	М		9.2.3.45	
Repetition Period	М		9.2.3.6	
Repetition Length	М		9.2.3.7	
TDD E-PUCH Offset	М		9.2.3.46	
TDD Channelisation Code 7.68Mcps	М		9.2.3.25	

## 9.2.3.51 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		9.2.3.53	
E-DCH Processing Overload Level	0		9.2.1.95	
E-DCH Power Offset for Scheduling Info	0		9.2.1.96	

## 9.2.3.52 E-DCH TDD Information Response 7.68Mcps

The *E-DCH TDD Information Response* 7.68*Mcps* IE provides information for E-DCH MAC-d flows that have been established or modified for 7.68Mcps TDD. It also provides additional E-DCH information determined within the Node B.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
E-DCH MAC-d Flow		0 <maxnoofedc< td=""><td></td><td></td></maxnoofedc<>		
Specific Information		HMACdFlows>		
Response				
>E-DCH MAC-d Flow ID	М		9.2.1.91	
>Binding ID	0		9.2.1.3	
>Transport Layer	0		9.2.1.62	
Address				
E-AGCH Specific		0 <maxnoofeag< td=""><td></td><td></td></maxnoofeag<>		
Information Response		CHcodes>		
7.68Mcps				
>Time Slot	М		9.2.1.56	
>Midamble Shift And	М		9.2.3.23	
Burst Type 7.68Mcps				
>TDD Channelisation	М		9.2.3.25	
Code 7.68Mcps				
E-HICH Information		01		
Response 7.68Mcps				
>Time Slot	Μ		9.2.1.56	
>Midamble Shift And	М		9.2.3.23	
Burst Type 7.68Mcps				
>TDD Channelisation	М		9.2.3.25	
Code 7.68Mcps				
>E-HICH Time Offset	Μ		9.2.3.48	
E-DCH Non-scheduled	0		9.2.3.50	
Grant Information				
7.68Mcps TDD				
E-RNTI	0		9.2.1.94	

Range Bound	Explanation
maxnoofEDCHMACdFlows	Maximum number of E-DCH MAC-d flows
maxnoofEAGCHcodes	Maximum number of E-AGCHs assigned to one UE

## 9.2.3.53 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			INTEGER	Bitrate on transport block
Bitrate 7.68Mcps			(017713,)	level. Unit is kbits per
				second.

## 9.2.3.54 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 [42]

### 9.2.3.54A 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 [42]

## 9.2.3.55 UpPCH Information LCR

Only for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
UpPCH Information LCR		1 <maxfr equencyin Cell&gt;</maxfr 			EACH	ignore
>UARFCN	0		9.2.1.66		-	
>UpPCH Position LCR	0		9.2.3.56		-	

Range Bound	Explanation		
maxFrequencyinCell	Maximum number of Frequency that can be defined in a Cell		

## 9.2.3.56 UpPCH Position LCR

Only for 1.28Mcps TDD.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UpPCH Position LCR			INTEGER	
			(1127)	

# 9.3 Message and Information Element Abstract Syntax (with ASN.1)

## 9.3.0 General

Subclause 9.3 presents the Abstract Syntax of RNSAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this subclause and the tabular format in subclause 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, in which the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of RNSAP messages. RNSAP 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 RNSAP 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 in which 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 RNSAP 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 multivendor 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

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itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

#### BEGIN

-- IE parameter types from other modules. - -\*\*\*\*\* \_ \_ IMPORTS Criticality, ProcedureID, TransactionID FROM RNSAP-CommonDataTypes CommonMeasurementFailureIndication, CommonMeasurementInitiationFailure, CommonMeasurementInitiationRequest, CommonMeasurementInitiationResponse, CommonMeasurementReport, CommonMeasurementTerminationRequest, CommonTransportChannelResourcesFailure, CommonTransportChannelResourcesRequest, CommonTransportChannelResourcesReleaseRequest, CommonTransportChannelResourcesResponseFDD, CommonTransportChannelResourcesResponseTDD, CompressedModeCommand, DedicatedMeasurementFailureIndication, DedicatedMeasurementInitiationFailure, DedicatedMeasurementInitiationRequest, DedicatedMeasurementInitiationResponse, DedicatedMeasurementReport, DedicatedMeasurementTerminationRequest, DirectInformationTransfer, DL-PowerControlRequest, DL-PowerTimeslotControlRequest, DownlinkSignallingTransferRequest, ErrorIndication, InformationExchangeFailureIndication, InformationExchangeInitiationFailure, InformationExchangeInitiationReguest, InformationExchangeInitiationResponse, InformationExchangeTerminationRequest, InformationReport, IurDeactivateTrace, IurInvokeTrace, MBMSAttachCommand, MBMSDetachCommand, PagingRequest, PhysicalChannelReconfigurationCommand,

PhysicalChannelReconfigurationFailure, PhysicalChannelReconfigurationReguestFDD, PhysicalChannelReconfigurationReguestTDD. PrivateMessage, RadioLinkActivationCommandFDD. RadioLinkActivationCommandTDD, RadioLinkAdditionFailureFDD, RadioLinkAdditionFailureTDD, RadioLinkAdditionRequestFDD, RadioLinkAdditionRequestTDD, RadioLinkAdditionResponseFDD, RadioLinkAdditionResponseTDD, RadioLinkCongestionIndication, RadioLinkDeletionRequest, RadioLinkDeletionResponse, RadioLinkFailureIndication, RadioLinkParameterUpdateIndicationFDD, RadioLinkParameterUpdateIndicationTDD, RadioLinkPreemptionRequiredIndication, RadioLinkReconfigurationCancel, RadioLinkReconfigurationCommit, RadioLinkReconfigurationFailure, RadioLinkReconfigurationPrepareFDD, RadioLinkReconfigurationPrepareTDD, RadioLinkReconfigurationReadyFDD, RadioLinkReconfigurationReadyTDD, RadioLinkReconfigurationRequestFDD, RadioLinkReconfigurationReguestTDD, RadioLinkReconfigurationResponseFDD, RadioLinkReconfigurationResponseTDD, RadioLinkRestoreIndication, RadioLinkSetupFailureFDD, RadioLinkSetupFailureTDD, RadioLinkSetupRequestFDD, RadioLinkSetupRequestTDD, RadioLinkSetupResponseFDD, RadioLinkSetupResponseTDD, RelocationCommit, ResetRequest, ResetResponse, UEMeasurementFailureIndication, UEMeasurementInitiationFailure, UEMeasurementInitiationRequest, UEMeasurementInitiationResponse, UEMeasurementReport, UEMeasurementTerminationRequest, UplinkSignallingTransferIndicationFDD, UplinkSignallingTransferIndicationTDD, GERANUplinkSignallingTransferIndication FROM RNSAP-PDU-Contents

id-commonMeasurementFailure, id-commonMeasurementInitiation, id-commonMeasurementReporting,

id-commonMeasurementTermination, id-commonTransportChannelResourcesInitialisation, id-commonTransportChannelResourcesRelease, id-compressedModeCommand, id-downlinkPowerControl, id-downlinkSignallingTransfer, id-downlinkPowerTimeslotControl, id-errorIndication, id-informationExchangeFailure, id-informationExchangeInitiation, id-informationReporting, id-informationExchangeTermination, id-iurDeactivateTrace, id-iurInvokeTrace. id-dedicatedMeasurementFailure, id-dedicatedMeasurementInitiation, id-dedicatedMeasurementReporting, id-dedicatedMeasurementTermination, id-directInformationTransfer, id-mBMSAttach. id-mBMSDetach, id-paging, id-physicalChannelReconfiguration, id-privateMessage, id-radioLinkActivation, id-radioLinkAddition, id-radioLinkCongestion, id-radioLinkDeletion, id-radioLinkFailure, id-radioLinkParameterUpdate, id-radioLinkPreemption, id-radioLinkRestoration, id-radioLinkSetup, id-relocationCommit, id-reset, id-synchronisedRadioLinkReconfigurationCancellation, id-synchronisedRadioLinkReconfigurationCommit, id-synchronisedRadioLinkReconfigurationPreparation, id-uEMeasurementFailure, id-uEMeasurementInitiation, id-uEMeasurementReporting, id-uEMeasurementTermination, id-unSynchronisedRadioLinkReconfiguration, id-uplinkSignallingTransfer, id-gERANuplinkSignallingTransfer FROM RNSAP-Constants; - --- Interface Elementary Procedure Class - -

RNSAP-ELEMENTARY-PROCEDURE ::= CLASS {

&InitiatingMessage

```
&SuccessfulOutcome
                                  OPTIONAL,
    &UnsuccessfulOutcome
                                      OPTIONAL.
    &Out.come
                              OPTIONAL,
    &procedureID
                          ProcedureID
                                          UNIQUE,
    &criticality
                                          DEFAULT ignore
                          Criticality
WITH SYNTAX {
   INITIATING MESSAGE
                           &InitiatingMessage
                           &SuccessfulOutcome]
    [SUCCESSFUL OUTCOME
                              &UnsuccessfulOutcomel
    [UNSUCCESSFUL OUTCOME
    [OUTCOME
                       &Outcome]
    PROCEDURE ID
                          &procedureID
    [CRITICALITY
                          &criticality]
     - -
  Interface PDU Definition
_ _
      **********
RNSAP-PDU ::= CHOICE {
   initiatingMessage
                      InitiatingMessage,
    successfulOutcome
                     SuccessfulOutcome,
    unsuccessfulOutcome UnsuccessfulOutcome,
   outcome
                   Outcome,
    . . .
InitiatingMessage ::= SEQUENCE
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
                                                             ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
               RNSAP-ELEMENTARY-PROCEDURE.&InitiatingMessage
SuccessfulOutcome ::= SEQUENCE
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
                                                             ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
               RNSAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome
UnsuccessfulOutcome ::= SEOUENCE {
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
    value
               RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
Outcome ::= SEQUENCE {
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}),
                                                         ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
```

**ETSI** 

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```
transactionID TransactionID,
   value
               RNSAP-ELEMENTARY-PROCEDURE, &Outcome
                                                     ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    - -
-- Interface Elementary Procedure List
- -
      **************
RNSAP-ELEMENTARY-PROCEDURES RNSAP-ELEMENTARY-PROCEDURE ::= {
   RNSAP-ELEMENTARY-PROCEDURES-CLASS-1
   RNSAP-ELEMENTARY-PROCEDURES-CLASS-2
   RNSAP-ELEMENTARY-PROCEDURES-CLASS-3
    . . .
RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= {
    radioLinkSetupFDD
   radioLinkSetupTDD
    radioLinkAdditionFDD
    radioLinkAdditionTDD
    radioLinkDeletion
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unSynchronisedRadioLinkReconfigurationFDD
    unSynchronisedRadioLinkReconfigurationTDD
    physicalChannelReconfigurationFDD
    physicalChannelReconfigurationTDD
    dedicatedMeasurementInitiation
    commonTransportChannelResourcesInitialisationFDD
    commonTransportChannelResourcesInitialisationTDD
    . . . ,
    commonMeasurementInitiation
    informationExchangeInitiation
    reset
    uEMeasurementInitiation
RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= {
    uplinkSignallingTransferFDD
   uplinkSignallingTransferTDD
   downlinkSignallingTransfer
    relocationCommit
    paging
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
   radioLinkFailure
    radioLinkPreemption
    radioLinkRestoration
    dedicatedMeasurementReporting
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
    downlinkPowerControlFDD
```

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```
downlinkPowerTimeslotControl
   compressedModeCommandFDD
   commonTransportChannelResourcesRelease
   errorIndication
   privateMessage
   . . . ,
   radioLinkCongestion
   commonMeasurementFailure
   commonMeasurementReporting
   commonMeasurementTermination
   informationExchangeFailure
   informationExchangeTermination
   informationReporting
   radioLinkActivationFDD
   radioLinkActivationTDD
   gERANuplinkSignallingTransfer
   radioLinkParameterUpdateFDD
   radioLinkParameterUpdateTDD
   uEMeasurementReporting
   uEMeasurementTermination
   uEMeasurementFailure
   iurInvokeTrace
   iurDeactivateTrace
   mBMSAttach
   mBMSDetach
   directInformationTransfer
RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
   . . .
  - -
- -
-- Interface Elementary Procedures
- -
  *****
radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestFDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkSetupFailureFDD
                      { procedureCode id-radioLinkSetup, ddMode fdd }
   PROCEDURE ID
   CRITICALITY
                  reiect
radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestTDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
                         RadioLinkSetupFailureTDD
   UNSUCCESSFUL OUTCOME
   PROCEDURE ID
                      { procedureCode id-radioLinkSetup, ddMode tdd }
   CRITICALITY
                  reject
```

```
radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkAdditionReguestFDD
    SUCCESSFUL OUTCOME RadioLinkAdditionResponseFDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureFDD
                        { procedureCode id-radioLinkAddition , ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    reject
radioLinkAdditionTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkAdditionRequestTDD
    SUCCESSFUL OUTCOME RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkAdditionFailureTDD
    PROCEDURE ID
                        { procedureCode id-radioLinkAddition , ddMode tdd }
    CRITICALITY
                    reject
3
radioLinkDeletion RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE RadioLinkDeletionRequest
    SUCCESSFUL OUTCOME RadioLinkDeletionResponse
    PROCEDURE ID
                        { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY
                    reject
}
synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyFDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
                        { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    reject
}
synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyTDD
                           RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationRequestFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseFDD
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationReguestTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseTDD
    UNSUCCESSFUL OUTCOME
                            RadioLinkReconfigurationFailure
    PROCEDURE ID
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    CRITICALITY
                    reject
```

```
physicalChannelReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
                            PhysicalChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-physicalChannelReconfiguration, ddMode fdd
    PROCEDURE ID
    CRITICALITY
                    reject
}
physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME
                            PhysicalChannelReconfigurationFailure
                        { procedureCode id-physicalChannelReconfiguration, ddMode tdd
    PROCEDURE ID
    CRITICALITY
                    reject
dedicatedMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME DedicatedMeasurementInitiationResponse
                           DedicatedMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    reiect
commonTransportChannelResourcesInitialisationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseFDD
                           CommonTransportChannelResourcesFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    reject
commonTransportChannelResourcesInitialisationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
                            CommonTransportChannelResourcesFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationFDD
    PROCEDURE ID
                        { procedureCode id-uplinkSignallingTransfer, ddMode fdd }
    CRITICALITY
                   ignore
}
uplinkSignallingTransferTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationTDD
                        { procedureCode id-uplinkSignallingTransfer, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
```

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```
downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DownlinkSignallingTransferReguest
    PROCEDURE ID
                        { procedureCode id-downlinkSignallingTransfer, ddMode common }
    CRITICALITY
                    ignore
3
relocationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RelocationCommit
    PROCEDURE ID
                        { procedureCode id-relocationCommit, ddMode common }
    CRITICALITY
                    iqnore
paging RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PagingRequest
                        { procedureCode id-paging, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY
                    iqnore
}
synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
                        { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkFailure, ddMode common }
    CRITICALITY
                    iqnore
radioLinkPreemption RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
                        { procedureCode id-radioLinkPreemption, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
3
radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkRestoreIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkRestoration, ddMode common
    CRITICALITY
                    ignore
}
dedicatedMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementReporting, ddMode common }
    CRITICALITY
                    ignore
```

```
dedicatedMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementTerminationRequest
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    CRITICALITY
                    ignore
3
dedicatedMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementFailure, ddMode common
                    ignore
    CRITICALITY
radioLinkCongestion RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkCongestionIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkCongestion, ddMode common }
    CRITICALITY
                    ignore
3
downlinkPowerControlFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerControlRequest
    PROCEDURE ID
                        { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY
                    iqnore
}
downlinkPowerTimeslotControl RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerTimeslotControlRequest
                        { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
compressedModeCommandFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CompressedModeCommand
    PROCEDURE ID
                        { procedureCode id-compressedModeCommand, ddMode fdd }
    CRITICALITY
                    iqnore
commonTransportChannelResourcesRelease RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE CommonTransportChannelResourcesReleaseRequest
                        { procedureCode id-commonTransportChannelResourcesRelease, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
3
errorIndication RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE ErrorIndication
    PROCEDURE ID
                        { procedureCode id-errorIndication, ddMode common }
    CRITICALITY
                    ignore
}
commonMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementInitiationReguest
    SUCCESSFUL OUTCOME
                            CommonMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                            CommonMeasurementInitiationFailure
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
```

```
commonMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementReport
    PROCEDURE ID
                        { procedureCode id-commonMeasurementReporting, ddMode common }
    CRITICALITY
                        ignore
commonMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementTerminationRequest
                        { procedureCode id-commonMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
3
commonMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementFailureIndication
                        { procedureCode id-commonMeasurementFailure, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
informationExchangeInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
                            InformationExchangeInitiationRequest
    INITIATING MESSAGE
    SUCCESSFUL OUTCOME
                            InformationExchangeInitiationResponse
                            InformationExchangeInitiationFailure
    UNSUCCESSFUL OUTCOME
                            { procedureCode id-informationExchangeInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
3
informationReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationReport
    PROCEDURE ID
                            { procedureCode id-informationReporting, ddMode common }
    CRITICALITY
                            ignore
}
informationExchangeTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
                            InformationExchangeTerminationRequest
    INITIATING MESSAGE
    PROCEDURE ID
                            { procedureCode id-informationExchangeTermination, ddMode common
    CRITICALITY
                            ignore
informationExchangeFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeFailureIndication
    PROCEDURE ID
                            { procedureCode id-informationExchangeFailure, ddMode common }
    CRITICALITY
                            ignore
}
privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PrivateMessage
                        { procedureCode id-privateMessage, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
reset RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResetRequest
```

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```
SUCCESSFUL OUTCOME
                            ResetResponse
                            { procedureCode id-reset, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
radioLinkActivationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
                            RadioLinkActivationCommandFDD
    INITIATING MESSAGE
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode fdd }
    CRITICALITY
                            ignore
radioLinkActivationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            RadioLinkActivationCommandTDD
    PROCEDURE ID
                            { procedureCode id-radioLinkActivation, ddMode tdd }
    CRITICALITY
                            ignore
}
gERANuplinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE GERANUplinkSignallingTransferIndication
    PROCEDURE ID
                        { procedureCode id-gERANuplinkSignallingTransfer, ddMode common }
    CRITICALITY
                    ignore
}
radioLinkParameterUpdateFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationFDD
                            { procedureCode id-radioLinkParameterUpdate, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                            ignore
J
radioLinkParameterUpdateTDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE
                            RadioLinkParameterUpdateIndicationTDD
    PROCEDURE ID
                            { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
    CRITICALITY
                            ignore
}
uEMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementInitiationRequest
    SUCCESSFUL OUTCOME UEMeasurementInitiationResponse
                            UEMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-uEMeasurementInitiation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
uEMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementReport
    PROCEDURE ID
                        { procedureCode id-uEMeasurementReporting, ddMode tdd }
    CRITICALITY
                    ignore
}
uEMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE UEMeasurementTerminationRequest
    PROCEDURE ID
                        { procedureCode id-uEMeasurementTermination, ddMode tdd }
    CRITICALITY
                    ignore
```

```
}
uEMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UEMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-uEMeasurementFailure, ddMode tdd }
    CRITICALITY
                    ignore
}
iurInvokeTrace RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE IurInvokeTrace
    PROCEDURE ID
                        { procedureCode id-iurInvokeTrace, ddMode common }
    CRITICALITY
                        ignore
}
iurDeactivateTrace RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE IurDeactivateTrace
                        { procedureCode id-iurDeactivateTrace, ddMode common }
    PROCEDURE ID
    CRITICALITY
                        ignore
}
mBMSAttach RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE
                           MBMSAttachCommand
    PROCEDURE ID
                            { procedureCode id-mBMSAttach, ddMode common }
    CRITICALITY
                            ignore
}
mBMSDetach RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            MBMSDetachCommand
                            { procedureCode id-mBMSDetach, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            ignore
}
directInformationTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            DirectInformationTransfer
                            { procedureCode id-directInformationTransfer, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            iqnore
}
```

END

## 9.3.3 PDU Definitions

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DEFINITIONS AUTOMATIC TAGS ::= BEGIN - --- IE parameter types from other modules. - -IMPORTS Active-Pattern-Sequence-Information, Active-MBMS-Bearer-Service-ListFDD, Active-MBMS-Bearer-Service-ListFDD-PFL, Active-MBMS-Bearer-Service-ListTDD, Active-MBMS-Bearer-Service-ListTDD-PFL, AllocationRetentionPriority, AllowedOueuingTime, Allowed-Rate-Information, AlphaValue, AlternativeFormatReportingIndicator, AntennaColocationIndicator, BLER, SCTD-Indicator, BindingID, C-ID, C-RNTI, CCTrCH-ID, CFN, CGI, ClosedLoopMode1-SupportIndicator, Closedlooptimingadjustmentmode, CN-CS-DomainIdentifier, CN-PS-DomainIdentifier, CNDomainType, Cause, CellCapabilityContainer-FDD, CellCapabilityContainer-TDD, CellCapabilityContainer-TDD-LCR, CellCapabilityContainer-TDD768, CellParameterID, CellPortionID, ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonTransportChannelResourcesInitialisationNotRequired, CongestionCause, Continuous-Packet-Connectivity-DTX-DRX-Information, Continuous-Packet-Connectivity-HS-SCCH-Less-Information, Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, CPC-Information,

CoverageIndicator,

CriticalityDiagnostics, D-RNTI. D-RNTI-ReleaseIndication. DCH-FDD-Information. DCH-ID. DCH-Indicator-For-E-DCH-HSDPA-Operation, DPCH-ID768, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DL-PowerBalancing-UpdatedIndicator, DL-ReferencePowerInformation, DL-ScramblingCode, DL-Timeslot-Information, DL-Timeslot-Information768, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DL-DPCH-TimingAdjustment, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, DSCH-RNTI, EDCH-FDD-Information, EDCH-FDD-InformationResponse, EDCH-FDD-Information-To-Modify, EDCH-FDD-DL-ControlChannelInformation, EDCH-DDI-Value, EDCH-MACdFlow-ID, EDCH-MACdFlow-Specific-InfoList, EDCH-MACdFlows-To-Delete, EDCH-MACdFlows-Information, EDCH-RL-Indication, EDCH-Serving-RL, E-DCH-Serving-cell-change-informationResponse, EDPCH-Information-FDD, EDPCH-Information-RLReconfPrepare-FDD, EDPCH-Information-RLReconfRequest-FDD,

E-DCH-FDD-Update-Information, E-DPCCH-PO, E-RGCH-2-IndexStepThreshold. E-RGCH-3-IndexStepThreshold, E-RNTI. E-TFCS-Information, E-TTI, Enhanced-FACH-Support-Indicator, Enhanced-FACH-Information-ResponseFDD, Enhanced-PCH-Capability, ExtendedPropagationDelay, Extended-RNC-ID, SchedulingPriorityIndicator, Enhanced-PrimaryCPICH-EcNo, F-DPCH-SlotFormat, F-DPCH-SlotFormatSupportReguest, FACH-FlowControlInformation, Fast-Reconfiguration-Mode, Fast-Reconfiguration-Permission, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, HARO-Info-for-E-DCH, HCS-Prio, HSDSCH-Configured-Indicator, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HS-DSCH-serving-cell-change-information, HS-DSCH-serving-cell-change-informationResponse, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed, InnerLoopDLPCStatus,

Inter-Frequency-Cell-List, L3-Information, LimitedPowerIncrease. MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrDLPhysicalchannels768, MaxNrDLPhysicalchannelsTS768, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MACes-Guaranteed-Bitrate, MaxNr-Retransmissions-EDCH. Max-Set-E-DPDCHs. Max-UE-DTX-Cycle, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MBMS-Bearer-Service-List, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftAndBurstType768, MidambleShiftLCR, MinimumSpreadingFactor, MinimumSpreadingFactor768, MinUL-ChannelisationCodeLength, Multiple-PLMN-List, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation768, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PartialReportingIndicator, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, ProvidedInformation,

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PunctureLimit, OE-Selector. RANAP-RelocationInformation, RB-Info, RL-ID. RL-Set-ID, RL-Specific-EDCH-Information, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, RxTimingDeviationForTA768, S-RNTI, S-RNTI-Group, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info-TDD, Secondary-CCPCH-Info-TDD768, Secondary-CPICH-Information, Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, SNA-Information. SpecialBurstScheduling, SSDT-SupportIndicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SRB-Delay, Support-8PSK, SyncCase, SynchronisationConfiguration, SixtyfourQAM-DL-SupportIndicator, TDD-ChannelisationCode, TDD-ChannelisationCode768, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DL-Code-Information768, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TDD-UL-Code-Information768, TFCI-Coding, TFCI-Presence,

TFCI-SignallingMode, TimeSlot, TimeSlotLCR. TimingAdvanceApplied, TMGI. TnlOos, TOAWE, TOAWS, TraceDepth, TraceRecordingSessionReference, TraceReference, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UEIdentity, UEMeasurementType, UEMeasurementTimeslotInfoHCR, UEMeasurementTimeslotInfoLCR, UEMeasurementTimeslotInfo768, UEMeasurementReportCharacteristics, UEMeasurementParameterModAllow, UEMeasurementValueInformation, UE-State, UL-DPCCH-SlotFormat, UL-DPDCHIndicatorEDCH, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-Timeslot-Information768, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR,

TDD-TPC-UplinkStepSize-LCR, PrimaryCCPCH-RSCP-Delta, SynchronisationIndicator, Support-PLCCH, PLCCHinformation, RxTimingDeviationForTAext, E-DCH-Information, E-DCH-Information-Reconfig, E-DCH-Information-Response, E-DCH-768-Information, E-DCH-768-Information-Reconfig, E-DCH-768-Information-Response, E-DCH-LCR-Information, E-DCH-LCR-Information-Reconfig, E-DCH-LCR-Information-Response, ControlGAP, HS-SICH-ID-Extension, TSN-Length, UPPCHPositionLCR

## FROM RNSAP-IEs

PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers

> maxCellsMeas, maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfDPCHs768, maxNrOfDPCHsPerRL-1, maxNrOfDPCHs768PerRL-1, maxNrOfInterfaces, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLSets-1, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs,

maxResetContext, maxResetContextGroup, maxNoOfDSCHsLCR. maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR. maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfDPCHsLCRPerRL-1, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, maxNrOfMACdFlows. maxNrOfMACdPDUSize, maxNrOfEDCHMACdFlows, maxNrOfHSSICHs, maxNrOfHSSICHs-1. maxNrOfActiveMBMSServices, maxNrOfMBMSServices, maxNrofSiqSeqERGHICH-1, id-Active-MBMS-Bearer-ServiceFDD, id-Active-MBMS-Bearer-ServiceFDD-PFL, id-Active-MBMS-Bearer-ServiceTDD, id-Active-MBMS-Bearer-ServiceTDD-PFL, id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedQueuingTime, id-AlternativeFormatReportingIndicator, id-AntennaColocationIndicator, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CellCapabilityContainer-FDD, id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-CellPortionID, id-ChipOffset, id-ClosedLoopMode1-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy,

id-CommonMeasurementObjectType-CM-Rprt,

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id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp. id-CommonMeasurementType. id-CommonTransportChannelResourcesInitialisationNotReguired, id-CongestionCause, id-Continuous-Packet-Connectivity-DTX-DRX-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, id-CPC-Information. id-CoverageIndicator, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication. id-DCHs-to-Add-FDD. id-DCHs-to-Add-TDD. id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information. id-DCH-TDD-Information, id-DCH-Indicator-For-E-DCH-HSDPA-Operation, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-DPCH-TimingAdjustment, id-DL-DPCH-Power-Information-RL-ReconfPrepFDD,

id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DL-PowerBalancing-Information. id-DL-PowerBalancing-ActivationIndicator, id-DL-PowerBalancing-UpdatedIndicator, id-DL-ReferencePowerInformation. id-DLReferencePower. id-DLReferencePowerList-DL-PC-Rgst, id-DL-ReferencePowerInformation-DL-PC-Rost, id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Fail, id-DedicatedMeasurementObjectType-DM-Fail-Ind, 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-DelayedActivationInformation-RL-ActivationCmdTDD, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-RNTI, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EDPCH-Information. id-EDCH-RL-Indication, id-EDCH-FDD-Information, id-Serving-EDCHRL-Id, id-EDCH-FDD-DL-ControlChannelInformation, id-EDCH-FDD-InformationResponse, id-E-DCH-FDD-Update-Information, id-EDCH-MACdFlows-To-Add, id-EDCH-FDD-Information-To-Modify, id-EDCH-MACdFlows-To-Delete, id-EDPCH-Information-RLReconfRequest-FDD, id-EDPCH-Information-RLAdditionReq-FDD, id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd, id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd, id-Enhanced-FACH-Support-Indicator, id-Enhanced-FACH-Information-ResponseFDD,

id-Enhanced-PCH-Capability,

id-ExtendedPropagationDelay,

id-Extended-SRNC-ID,

id-Extended-RNC-ID,

id-Serving-cell-change-CFN,

id-E-DCH-Serving-cell-change-informationResponse,

id-Enhanced-PrimaryCPICH-EcNo, id-F-DPCH-SlotFormat. id-F-DPCH-SlotFormatSupportRequest. id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-Fast-Reconfiguration-Mode, id-Fast-Reconfiguration-Permission, id-FrameOffset, id-F-DPCH-Information-RL-ReconfPrepFDD, id-F-DPCH-Information-RL-SetupRgstFDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-GSM-Cell-InfEx-Rqst, id-HCS-Prio. id-HSDSCH-Configured-Indicator, id-HSDSCH-FDD-Information, id-HSDSCH-FDD-Information-Response, id-HSDSCH-FDD-Update-Information, id-HSDSCH-TDD-Update-Information, id-HSDSCH-Information-to-Modify, id-HSDSCH-Information-to-Modify-Unsynchronised, id-HSDSCH-MACdFlows-to-Add, id-HSDSCH-MACdFlows-to-Delete, id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd, id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd, id-HSDSCH-RNTI, id-HS-DSCH-serving-cell-change-information, id-HS-DSCH-serving-cell-change-informationResponse, id-HSDSCH-TDD-Information, id-HSDSCH-TDD-Information-Response, id-HSPDSCH-RL-ID, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD, id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD, id-HSSICH-Info-DM-Rprt, id-HSSICH-Info-DM-Rast, id-HSSICH-Info-DM, id-IMSI, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-Initial-DL-DPCH-TimingAdjustment, id-Initial-DL-DPCH-TimingAdjustment-Allowed, id-InnerLoopDLPCStatus, id-InterfacesToTraceItem, id-Inter-Frequency-Cell-List, id-L3-Information, id-AdjustmentPeriod, id-ListOfInterfacesToTrace, id-MaxAdjustmentStep, id-Max-UE-DTX-Cycle,

id-MBMS-Bearer-Service-List-InfEx-Rsp, id-MeasurementFilterCoefficient. id-MeasurementID. id-MeasurementRecoveryBehavior, id-MeasurementRecoveryReportingIndicator, id-MeasurementRecoverySupportIndicator, id-Multiple-PLMN-List, id-Multiple-RL-InformationResponse-RL-ReconfReadvTDD, id-NACC-Related-Data, id-Old-URA-ID, id-PagingArea-PagingRgst, id-PartialReportingIndicator, id-PDSCH-RL-ID. id-Permanent-NAS-UE-Identity, id-Phase-Reference-Update-Indicator, id-FACH-FlowControlInformation, id-PLCCH-Information-PhyChReconfRgstTDD, id-PowerAdjustmentType, id-PrimCCPCH-RSCP-DL-PC-RqstTDD, id-Primary-CPICH-Usage-For-Channel-Estimation, id-PropagationDelay, id-ProvidedInformation, id-RANAP-RelocationInformation, id-ResetIndicator, id-EDCH-RLSet-Id, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRgstTDD, id-RL-Information-RL-AdditionRgstFDD, id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-DeletionRgst, id-RL-Information-RL-FailureInd, id-RL-Information-RL-ReconfPrepFDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-RestoreInd, id-RL-Information-RL-SetupRgstFDD, id-RL-Information-RL-SetupRqstTDD, id-RL-InformationItem-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD,

id-RNC-ID,

id-S-RNTI, id-SAI,

id-SFN,

515 id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadvFDD. id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ParameterUpdateIndicationFDD-RL-Information-Item, id-RL-ParameterUpdateIndicationFDD-RL-InformationList, id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-ReconfigurationRequestFDD-RL-InformationList, id-RL-ReconfigurationReguestFDD-RL-Information-IEs, id-RL-ReconfigurationReguestTDD-RL-Information, id-RL-ReconfigurationResponseTDD-RL-Information, id-RL-Specific-DCH-Info, id-RL-Specific-EDCH-Information, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rost, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-RL-Set-Successful-InformationItem-DM-Fail. id-RL-Set-Unsuccessful-InformationItem-DM-Fail, id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind, id-RL-Successful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail, id-RL-Unsuccessful-InformationItem-DM-Fail-Ind, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-Secondary-CPICH-Information, id-Secondary-CPICH-Information-Change,

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id-SFNReportingIndicator, id-SNA-Information, id-SRNC-ID, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-TDD-maxNrDLPhysicalchannels, id-TDD-Support-8PSK, id-TDD-Support-PLCCH, id-timeSlot-ISCP, id-TimeSlot-RL-SetupRspTDD, id-TnlOos, id-TraceDepth, id-TraceRecordingSessionReference, id-TraceReference, id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLayerAddress,

id-SixtyfourQAM-DL-SupportIndicator,

id-UC-ID, id-ContextInfoItem-Reset. id-ContextGroupInfoItem-Reset. id-Transmission-Gap-Pattern-Sequence-Information, id-UEIdentity, id-UEMeasurementType, id-UEMeasurementTimeslotInfoHCR, id-UEMeasurementTimeslotInfoLCR, id-UEMeasurementReportCharacteristics, id-UEMeasurementParameterModAllow, id-UEMeasurementValueInformation, id-UE-State, id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRgstFDD, id-UL-DPDCHIndicatorEDCH, id-UL-DPCH-InformationItem-PhyChReconfRqstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRgstTDD, id-UL-SIRTarget, id-URA-ID, id-URA-Information. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD,

id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD. id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD. id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhvChReconfRgstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD, id-PrimarvCCPCH-RSCP-RL-ReconfPrepTDD, id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD, id-neighbouringTDDCellMeasurementInformationLCR, id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD, id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD, id-TrafficClass, id-UL-Synchronisation-Parameters-LCR, id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD, id-TDD-UL-DPCH-TimeSlotFormatModifvItem-LCR-RL-ReconfReadvTDD, id-MAChs-ResetIndicator, id-UL-TimingAdvanceCtrl-LCR,

id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD, id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD, id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD, id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD, id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD, id-DL-CCTrCH-InformationList-RL-ReconfRspTDD, id-DL-DPCH-InformationModifvItem-LCR-RL-ReconfRspTDD, id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationItem-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationItem-RL-AdditionRgstTDD, id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD, id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD, id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,

id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,

id-PrimaryCCPCH-RSCP-Delta, id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp, id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp. id-SynchronisationIndicator, id-secondary-LCR-CCPCH-Info-TDD, id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp, id-CellCapabilityContainer-TDD768, id-neighbouringTDDCellMeasurementInformation768, id-RL-InformationResponse-RL-SetupRspTDD768, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768, id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768, id-UL-DPCH-InformationItem-RL-SetupRspTDD768, id-DL-DPCH-InformationItem-RL-SetupRspTDD768, id-TDD768-minimumSpreadingFactor-UL, id-TDD768-minimumSpreadingFactor-DL, id-TDD768-maxNrDLPhysicalchannels, id-TDD768-maxNrDLPhysicalchannelsTS, id-RL-InformationResponse-RL-AdditionRspTDD768, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768, id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768, id-UL-DPCH-InformationItem-RL-AdditionRspTDD768, id-DL-DPCH-InformationItem-RL-AdditionRspTDD768, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768, id-UL-Timeslot-InformationModifvList-RL-ReconfReadvTDD768, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768, id-DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768, id-secondary-CCPCH-Info-RL-ReconfReadyTDD768, id-HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD768, id-UL-Timeslot-InformationList-PhyChReconfRgstTDD768, id-DL-Timeslot-InformationList-PhyChReconfRgstTDD768, id-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp, id-UEMeasurementTimeslotInfo768, id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD, id-DPCH-ID768-DM-Rsp, id-DPCH-ID768-DM-Rast, id-DPCH-ID768-DM-Rprt, id-RxTimingDeviationForTAext, id-RxTimingDeviationForTA768, id-E-DCH-Information, id-E-DCH-Information-Reconfig, id-E-DCH-Serving-RL-ID, id-E-DCH-Information-Response, id-E-DCH-768-Information, id-E-DCH-768-Information-Reconfig, id-E-DCH-768-Information-Response, id-E-DCH-LCR-Information, id-E-DCH-LCR-Information-Reconfig. id-E-DCH-LCR-Information-Response, id-PowerControlGAP, id-UARFCNforNt, id-HS-SICH-ID-Extension, id-HSSICH-Info-DM-Rgst-Extension, id-UPPCHPositionLCR

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```
FROM RNSAP-Constants:
    - -
-- RADIO LINK SETUP REQUEST FDD
       ************
RadioLinkSetupRequestFDD ::= SEQUENCE {
                                 ProtocolIE-Container
                                                           {{RadioLinkSetupRequestFDD-IEs}},
   protocolIEs
                                 ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL
   . . .
RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-SRNC-ID
                    CRITICALITY reject TYPE RNC-ID
                                                                                 PRESENCE mandatory }
     ID id-S-RNTI
                              CRITICALITY reject TYPE S-RNTI
                                                                                  PRESENCE mandatory }
     ID id-D-RNTI
                                 CRITICALITY reject TYPE D-RNTI
                                                                              PRESENCE optional } |
     ID id-AllowedQueuingTime
                                     CRITICALITY reject TYPE AllowedQueuingTime
                                                                                         PRESENCE optional
     ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRqstFDD
                                                                                                         PRESENCE mandatory }
     ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD
                                                                                                         PRESENCE optional } |
     ID id-DCH-FDD-Information CRITICALITY reject TYPE DCH-FDD-Information
                                                                                  PRESENCE mandatory }
     ID id-RL-Information-RL-SetupRqstFDD
                                         CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD
                                                                                                         PRESENCE mandatory }|
     ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
                                                                                                                               PRESENCE
   optional }
   { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
   . . .
3
UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE
   ul-ScramblingCode
                                 UL-ScramblingCode,
   minUL-ChannelisationCodeLength
                                        MinUL-ChannelisationCodeLength,
   maxNrOfUL-DPCHs
                                 MaxNrOfUL-DPCHs
                                                       OPTIONAL
   -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 -- ,
   ul-PunctureLimit
                                 PunctureLimit,
   ul-TFCS
                                 TFCS,
   ul-DPCCH-SlotFormat
                                 UL-DPCCH-SlotFormat,
   ul-SIRTarget
                                 UL-SIR
                                                OPTIONAL,
                                 DiversityMode,
   diversityMode
   not-Used-sSDT-CellIdLength
                                 NULL
                                                OPTIONAL,
   not-Used-s-FieldLength
                                 NULL
                                                OPTIONAL,
                                 ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
                                                                                     PRESENCE optional }|
     ID id-DPC-Mode
                                 CRITICALITY reject
                                                       EXTENSION DPC-Mode
    { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject
                                                       EXTENSION UL-DPDCHIndicatorEDCH PRESENCE optional },
   . . .
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
```

```
+ FCS
                                    TFCS,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat.
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes.
    tFCI-SignallingMode
                                    TFCI-SignallingMode,
    tFCI-Presence
                                    TFCI-Presence
                                                             OPTTONAL.
    -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
                                        PowerOffsetInformation-RL-SetupRqstFDD,
    powerOffsetInformation
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
       pol-ForTFCI-Bits
                                        PowerOffset,
       po2-ForTPC-Bits
                                        PowerOffset,
       po3-ForPilotBits
                                        PowerOffset,
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs } } OPTIONAL.
       iE-Extensions
        . . .
PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-SetupRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { {RL-InformationItemIEs-RL-
SetupRqstFDD} }
RL-InformationItemIEs-RL-SetupRgstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD
                                                                                                                  PRESENCE mandatory }
}
RL-InformationItem-RL-SetupRgstFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    c-ID
                                    C-ID,
    firstRLS-indicator
                                    FirstRLS-Indicator,
    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-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power
                                    DL-Power
                                                        OPTIONAL,
    primaryCPICH-EcNo
                                    PrimaryCPICH-EcNo
                                                                OPTIONAL.
                                    NULL
    not-Used-sSDT-CellID
                                                    OPTIONAL,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                     OPTIONAL,
    -- This IE shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
```

RL-InformationItem-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-Enhanced-PrimaryCPICH-ECNO CRITICALITY ignore EXTENSION Enhanced-PrimaryCPICH-ECNO 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-CellPortionID CRITICALITY ignore EXTENSION CellPortionID PRESENCE optional } ID id-RL-Specific-EDCH-Information EXTENSION RL-Specific-EDCH-Information CRITICALITY reject PRESENCE optional } ID id-EDCH-RL-Indication CRITICALITY reject EXTENSION EDCH-RL-Indication PRESENCE optional } ID id-ExtendedPropagationDelay CRITICALITY ignore EXTENSION ExtendedPropagationDelay PRESENCE optional }| ID id-SynchronisationIndicator CRITICALITY reject EXTENSION SynchronisationIndicator PRESENCE optional }, . . . } RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional } | ID id-Permanent-NAS-UE-Identity ID id-DL-PowerBalancing-Information CRITICALITY ignore EXTENSION DL-PowerBalancing-Information PRESENCE optional } ID id-HSDSCH-FDD-Information PRESENCE optional } | CRITICALITY reject EXTENSION HSDSCH-FDD-Information ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE conditional }| -- This IE shall be present if HS-DSCH Information IE is present. ID id-MBMS-Bearer-Service-List CRITICALITY notify EXTENSION MBMS-Bearer-Service-List PRESENCE optional }| ID id-EDPCH-Information CRITICALITY reject EXTENSION EDPCH-Information-FDD PRESENCE optional } ID id-EDCH-FDD-Information CRITICALITY reject PRESENCE conditional } EXTENSION EDCH-FDD-Information -- This IE is present if E-DPCH Information IE is present. { ID id-Serving-EDCHRL-Id CRITICALITY reject EXTENSION EDCH-Serving-RL PRESENCE optional }| -- This IE is present if E-DCHInformation IE is present. { ID id-F-DPCH-Information-RL-SetupRgstFDD CRITICALITY reject EXTENSION F-DPCH-Information-RL-SetupRgstFDD PRESENCE optional }| { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional }| { ID id-DCH-Indicator-For-E-DCH-HSDPA-Operation CRITICALITY reject EXTENSION DCH-Indicator-For-E-DCH-HSDPA-Operation PRESENCE optional }| { ID id-Serving-cell-change-CFN CRITICALITY reject EXTENSION CFN PRESENCE optional }| { ID id-Continuous-Packet-Connectivity-DTX-DRX-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-DTX-DRX-Information PRESENCE optional }| { ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-Information PRESENCE optional }| { ID id-Extended-SRNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional }, . . . } F-DPCH-Information-RL-SetupRgstFDD ::= SEOUENCE { powerOffsetInformation PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD, fdd-dl-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize, limitedPowerIncrease LimitedPowerIncrease, innerLoopDLPCStatus InnerLoopDLPCStatus, iE-Extensions ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL, . . .

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F-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-F-DPCH-SlotFormatSupportRequest CRITICALITY reject EXTENSION F-DPCH-SlotFormatSupportRequest PRESENCE optional }| ID id-F-DPCH-SlotFormat CRITICALITY ignore EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . } PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD ::= SEOUENCE { po2-ForTPC-Bits PowerOffset, --This IE shall be ignored by DRNS iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs } } OPTIONAL, . . . PowerOffsetInformation-F-DPCH-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { - --- RADIO LINK SETUP REQUEST TDD RadioLinkSetupRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupReguestTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupReguestTDD-Extensions}} OPTIONAL, . . . } RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= { TD id-SRNC-TD CRITICALITY reject TYPE RNC-ID PRESENCE mandatory } ID id-S-RNTI CRITICALITY reject TYPE S-RNTI PRESENCE mandatory } CRITICALITY reject TYPE D-RNTI ID id-D-RNTI PRESENCE optional } ID id-UL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE UL-Physical-Channel-Information-RL-SetupRqstTDD PRESENCE mandatory } | { ID id-DL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE DL-Physical-Channel-Information-RL-SetupRqstTDD PRESENCE mandatory } | ID id-AllowedOueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional ID id-UL-CCTrCH-InformationList-RL-SetupRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } ID id-DCH-TDD-Information CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DSCH-TDD-Information CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional ID id-USCH-Information CRITICALITY reject TYPE USCH-Information PRESENCE optional } ID id-RL-Information-RL-SetupRgstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRostTDD PRESENCE mandatory }, } UL-Physical-Channel-Information-RL-SetupRqstTDD ::= SEQUENCE { MaxNrTimeslots, maxNrTimeslots-UL minimumSpreadingFactor-UL MinimumSpreadingFactor, maxNrULPhysicalchannels MaxNrULPhysicalchannels, iE-Extensions ProtocolExtensionContainer { {UL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,

```
UL-Physical-Channel-InformationItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-Support-8PSK
                                    CRITICALITY ignore
                                                            EXTENSION Support-8PSK
                                                                                         PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-TDD768-minimumSpreadingFactor-UL
                                                    CRITICALITY ignore
                                                                                 EXTENSION MinimumSpreadingFactor768
                                                                                                                        PRESENCE optional },
    . . .
DL-Physical-Channel-Information-RL-SetupRqstTDD ::= SEQUENCE {
    maxNrTimeslots-DL
                                    MaxNrTimeslots,
    minimumSpreadingFactor-DL
                                    MinimumSpreadingFactor,
    maxNrDLPhysicalchannels
                                    MaxNrDLPhysicalchannels,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Physical-Channel-InformationItem-RL-SetupRgstTDD-ExtIEs} } OPTIONAL,
    . . .
DL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-TDD-maxNrDLPhysicalchannels
                                                     CRITICALITY ignore
                                                                                 EXTENSION MaxNrDLPhysicalchannelsTS
                                                                                                                           PRESENCE optional }
                                                                                 EXTENSION Support-8PSK
     ID id-TDD-Support-8PSK
                                                     CRITICALITY ignore
                                                                                                                           PRESENCE optional }
    -- Applicable to 1.28Mcps TDD only
      ID id-TDD-Support-PLCCH
                                                     CRITICALITY ignore
                                                                                 EXTENSION Support-PLCCH
                                                                                                                           PRESENCE optional }
      ID id-TDD768-minimumSpreadingFactor-DL
                                                     CRITICALITY ignore
                                                                                 EXTENSION MinimumSpreadingFactor768
                                                                                                                           PRESENCE optional
      ID id-TDD768-maxNrDLPhysicalchannels
                                                                                 EXTENSION MaxNrDLPhysicalchannels768
                                                     CRITICALITY ignore
                                                                                                                           PRESENCE optional }
     ID id-TDD768-maxNrDLPhysicalchannelsTS
                                                                                 EXTENSION MaxNrDLPhysicalchannelsTS768
                                                     CRITICALITY ignore
                                                                                                                           PRESENCE optional },
    . . .
3
                                                     ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { { UL-CCTrCH-
UL-CCTrCH-InformationList-RL-SetupRgstTDD
InformationItemIEs-RL-SetupRqstTDD} }
UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory
}
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-TFCS
                                TFCS,
                                TFCI-Coding,
    tFCI-Coding
    ul-PunctureLimit
                                    PunctureLimit,
                                    ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
UL-CCTrCH-InformationItem-RL-SetupRostTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { 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
    . . .
DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                    ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-
InformationItemIEs-RL-SetupRqstTDD } 
DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-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 { CCTTCH-ID CCTrCH-ID. dl-TFCS TFCS, tFCI-Coding TFCI-Coding, dl-PunctureLimit PunctureLimit, tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize, CCTrCH-TPCList-RL-SetupRqstTDD OPTIONAL, cCTrCH-TPCList iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL, DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL, . . . CCTrCH-TPCItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . RL-Information-RL-SetupRgstTDD ::= SEQUENCE rL-TD RL-ID, C-TD C-ID, frameOffset FrameOffset, specialBurstScheduling SpecialBurstScheduling, primarvCCPCH-RSCP PrimarvCCPCH-RSCP OPTIONAL. DL-TimeSlot-ISCP-Info dL-TimeSlot-ISCP OPTIONAL, --for 3.84Mcps TDD and 7.68Mcps TDD only ProtocolExtensionContainer { {RL-Information-RL-SetupRgstTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-Information-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD CRITICALITY reject EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional }| { ID id-TSTD-Support-Indicator-RL-SetupRqstTDD CRITICALITY ignore EXTENSION TSTD-Support-Indicator PRESENCE optional 31 --for 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-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta optional }, PRESENCE

```
RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Permanent-NAS-UE-Identity
                                                 CRITICALITY ignore
                                                                           EXTENSION Permanent-NAS-UE-Identity
                                                                                                               PRESENCE optional }|
     ID id-HSDSCH-TDD-Information
                                                 CRITICALITY reject
                                                                           EXTENSION HSDSCH-TDD-Information PRESENCE optional }|
    ID id-HSPDSCH-RL-ID
                                                 CRITICALITY reject
                                                                           EXTENSION RL-ID
                                                                                                                PRESENCE conditional }|
   -- This IE shall be present if HS-DSCH Information IE is present.
     ID id-PDSCH-RL-ID CRITICALITY ignore
                                                            EXTENSION RL-ID
                                                                               PRESENCE optional }
     ID id-MBMS-Bearer-Service-List
                                         CRITICALITY notify EXTENSION MBMS-Bearer-Service-List
                                                                                                    PRESENCE optional }
                                     CRITICALITY reject
                                                            EXTENSION E-DCH-Information PRESENCE optional
     ID id-E-DCH-Information
     ID id-E-DCH-Serving-RL-ID
                                     CRITICALITY reject
                                                            EXTENSION RL-ID
                                                                                      PRESENCE optional
                                         CRITICALITY reject
                                                                EXTENSION E-DCH-768-Information PRESENCE optional } |
     ID id-E-DCH-768-Information
                                                                EXTENSION E-DCH-LCR-Information PRESENCE optional }
     ID id-E-DCH-LCR-Information
                                         CRITICALITY reject
     ID id-Extended-SRNC-ID
                                                 CRITICALITY reject EXTENSION Extended-RNC-ID
       PRESENCE optional },
    *********
- -
-- RADIO LINK SETUP RESPONSE FDD
         **********
RadioLinkSetupResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupResponseFDD-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
                                                                                                                   OPTIONAL,
   . . .
RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
     TD id-D-RNTT
                                         CRITICALITY ignore TYPE D-RNTI
                                                                                          PRESENCE optional
     ID id-CN-PS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                            PRESENCE optional
     ID id-CN-CS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                            PRESENCE optional
     ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY iqnore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory
     ID id-UL-SIRTarget
                                         CRITICALITY ignore TYPE UL-SIR
                                                                                       PRESENCE optional } |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
   . . .
RL-InformationResponseList-RL-SetupRspFDD
                                             ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-
InformationResponseItemIEs-RL-SetupRspFDD } }
RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-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,
   uRA-Information
                                 URA-Information
                                                     OPTIONAL,
                                  SAI,
   sAI
                                 GA-Cell
   qA-Cell
                                             OPTIONAL,
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}

	gA-AccessPointPosition received-total-wide-band-power not-Used-secondary-CCPCH-Info	GA-AccessPointPosit Received-total-wide NULL					
	dl-CodeInformation	FDD-DL-CodeInformat	ion,				
	diversityIndication	-RL-SetupRspFDD,					
	sSDT-SupportIndicator maxUL-SIR	or,					
	minUL-SIR	UL-SIR,					
	closedlooptimingadjustmentmode Closedlooptimingadj aximumAllowedULTxPower MaximumAllowedULTxP			OPTIONAL,			
	maximumDLTxPower minimumDLTxPower	DL-Power, DL-Power,					
	primaryScramblingCode			OPTIONAL,			
	uL-UARFCN UARFCN			OPTIONAL,			
	dL-UARFCN UARFCN			OPTIONAL,			
	primaryCPICH-Power						
	not-Used-dSCHInformationResponse		OPTIONAL,				
	-		TS-CellInformation	OPTIONAL,			
	neighbouring-GSM-CellInformation	n Neighbouring-GS	M-CellInformation	OPTIONAL,			
	pC-Preamble	PC-Preamble,					
	sRB-Delay	SRB-Delay,					
	iE-Extensions ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,						
}							
	-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP- { ID id-GA-CellAdditionalShapes				GA-CellAdditionalShapes	PRESENCE optional	
}  }	{    ID id-DL-PowerBalancing-ActivationIndicator		CRITICALITY ignore	EXTENSION	DL-PowerBalancing-ActivationIndicator	PRESENCE optional	
}	{ ID id-HCS-Prio		CRITICALITY ignore	EXTENSION	HCS-Prio	PRESENCE optional	
	{ ID id-Primary-CPICH-Usage-For-Channel-Estimation ional }		CRITICALITY ignore	EXTENSION	Primary-CPICH-Usage-For-Channel-Estimation	PRESENCE	
-	{ ID id-Secondary-CPICH-Information ional }		CRITICALITY ignore	EXTENSION	Secondary-CPICH-Information	PRESENCE	
-	{ ID id-Active-MBMS-Bearer-ServiceFDD-PFL ional }		CRITICALITY ign	nore EXTENS	SION Active-MBMS-Bearer-Service-ListFDD-PFL	PRESENCE	
-	{ ID id-EDCH-RLSet-Id ional }		CRITICALITY ignore	EXTENSION	RL-Set-ID	PRESENCE	
-	{    ID id-EDCH-FDD-DL-ControlChannelInformation		CRITICALITY ignore	EXTENSION	EDCH-FDD-DL-ControlChannelInformation	PRESENCE	
-	tional }  { ID id-Initial-DL-DPCH-TimingAdjustment		CRITICALITY ignore	EXTENSION	DL-DPCH-TimingAdjustment	PRESENCE optional	
}	{ ID id-F-DPCH-SlotFormat PRESENCE optional }		CRITICALITY ignore	EXTENSION	F-DPCH-SlotFormat		
	{ ID id-FrameOffset		CRITICALITY ignore	EXTENSION	FrameOffset	PRESENCE optional	
	{ ID id-ChipOffset		CRITICALITY ignore	EXTENSION	ChipOffset	PRESENCE optional	
},							
ļ							

```
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                  Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                  NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEQUENCE {
    rL-TD
                              RL-ID,
   iE-Extensions
                              ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
     ID id-DCH-InformationResponse
                                         CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                   PRESENCE optional }|
     ID id-EDCH-FDD-InformationResponse
                                         CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                        PRESENCE optional },
    . . .
3
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
                              DCH-InformationResponse,
    dCH-InformationResponse
                              ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    {ID id-EDCH-FDD-InformationResponse
                                                                                                        PRESENCE optional },
                                         CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
    . . .
3
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-RNTI
                                             CRITICALITY ignore
                                                                     EXTENSION HSDSCH-RNTI
                                                                                                                 PRESENCE optional }
                                                                                                                 PRESENCE optional }
     ID id-HSDSCH-FDD-Information-Response
                                             CRITICALITY ignore
                                                                     EXTENSION HSDSCH-FDD-Information-Response
     ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                                CRITICALITY iqnore
                                                                                                     EXTENSION Continuous-Packet-Connectivity-
HS-SCCH-Less-Information-Response
                                      PRESENCE optional }|
    { ID id-SixtyfourQAM-DL-SupportIndicator
                                             CRITICALITY ignore
                                                                                                                 PRESENCE optional },
                                                                     EXTENSION SixtyfourQAM-DL-SupportIndicator
    . . .
   - -
-- RADIO LINK SETUP RESPONSE TDD
      RadioLinkSetupResponseTDD ::= SEQUENCE {
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupResponseTDD-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
    . . .
}
RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                  CRITICALITY ignore TYPE D-RNTI
                                                                                    PRESENCE optional }
     ID id-CN-PS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                             PRESENCE optional
     ID id-CN-CS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                             PRESENCE optional
     ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE optional }
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--Mandatory for 3.84Mcps TDD only
     ID id-UL-SIRTarget
                                        CRITICALITY ignore TYPE UL-SIR
                                                                                         PRESENCE mandatory }
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                   PRESENCE optional }.
    . . .
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    uRA-Information
                                URA-Information
                                                    OPTIONAL,
    SAT
                                SAI,
                                GA-Cell
                                            OPTIONAL,
    qA-Cell
    qA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-Info
                                UL-TimeSlot-ISCP-Info.
    maxUL-SIR
                                UL-SIR.
    minUL-SIR
                                UL-SIR.
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    uARFCNforNt
                                UARFCN
                                                     OPTIONAL,
    cellParameterID
                                CellParameterID
                                                     OPTIONAL,
    syncCase
                                SvncCase
                                                    OPTIONAL,
                                SCH-TimeSlot
                                                    OPTIONAL,
    sCH-TimeSlot
    -- This IE shall be present if Sync Case IE is equal to "Case2". --
    sCTD-Indicator
                                SCTD-Indicator OPTIONAL,
    pCCPCH-Power
                                PCCPCH-Power,
    timingAdvanceApplied
                                TimingAdvanceApplied,
    alphaValue
                                AlphaValue,
                                UL-PhysCH-SF-Variation,
    ul-PhysCH-SF-Variation
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD
                                        Secondary-CCPCH-Info-TDD
                                                                     OPTIONAL,
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-UMTS-CellInformation
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                             GA-CellAdditionalShapes
                                                                                                         PRESENCE optional }|
      ID id-HCS-Prio
                                CRITICALITY ignore EXTENSION HCS-Prio
                                                                                 PRESENCE optional }
     ID id-TimeSlot-RL-SetupRspTDD
                                        CRITICALITY ignore EXTENSION TimeSlot
                                                                                     PRESENCE conditional
    -- This IE shall be present if Sync Case IE is Case1. --
    . . .
UL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListles-RL-SetupRspTDD}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                 PRESENCE mandatory }
```

```
UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD
UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    CCTTCH-ID
                                CCTrCH-ID.
   ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL.
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD
                                                                    CRITICALITY ignore
                                                                                             EXTENSION UL-SIR
                                                                                                                 PRESENCE optional },
    . . .
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { { UL-DPCH-InformationListIEs-RL-SetupRspTDD } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
3
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListles-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
                                CCTrCH-ID,
    cCTrCH-ID
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD
                                                        CRITICALITY ignore
                                                                                EXTENSION DL-Power
                                                                                                     PRESENCE optional } | -- this is a DCH type
CCTrCH power
```

```
PRESENCE optional }, -- this is a DCH type
    { ID id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD
                                                        CRITICALITY iqnore
                                                                                EXTENSION DL-Power
CCTrCH power
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                           TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
                                    DSCH-FlowControlInformation,
    dSCH-FlowControlInformation
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL.
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
```

```
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress
                                                        OPTIONAL,
                                TransportFormatManagement,
    transportFormatManagement
                                ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY iqnore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD
                                                                                                                                       PRESENCE
optional}|
    --Mandatory for 1.28Mcps TDD only
    { ID id-HSDSCH-RNTI
                                                        CRITICALITY ignore
                                                                                 EXTENSION HSDSCH-RNTI
                                                                                                                                       PRESENCE
optional }|
    { ID id-HSDSCH-TDD-Information-Response
                                                        CRITICALITY ignore
                                                                                 EXTENSION HSDSCH-TDD-Information-Response
                                                                                                                                       PRESENCE
optional }|
    { ID id-DSCH-RNTI
                                                         CRITICALITY ignore
                                                                                 EXTENSION DSCH-RNTI
                                                                                                                                       PRESENCE
optional }
    { ID id-Active-MBMS-Bearer-ServiceTDD-PFL
                                                        CRITICALITY ignore
                                                                                 EXTENSION Active-MBMS-Bearer-Service-ListTDD-PFL
                                                                                                                                       PRESENCE
optional }
    { ID id-RL-InformationResponse-RL-SetupRspTDD768
                                                        CRITICALITY ignore
                                                                                 EXTENSION RL-InformationResponse-RL-SetupRspTDD768
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-Information-Response
                                                        CRITICALITY ignore
                                                                                                                                       PRESENCE
                                                                                 EXTENSION E-DCH-Information-Response
optional }|
    { ID id-E-DCH-768-Information-Response
                                                        CRITICALITY ignore
                                                                                 EXTENSION E-DCH-768-Information-Response
                                                                                                                                       PRESENCE
optional }|
    { ID id-E-DCH-LCR-Information-Response
                                                        CRITICALITY ignore
                                                                                 EXTENSION E-DCH-LCR-Information-Response
                                                                                                                                       PRESENCE
optional
           },
    . . .
}
RL-LCR-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-TD
                                RL-ID,
    uRA-Information
                                URA-Information,
    SAT
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    qA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info
                                UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR,
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower,
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
```

```
uARFCNforNt
                                UARFCN
                                                        OPTIONAL,
    cellParameterID
                                CellParameterID
                                                        OPTIONAL.
    sCTD-Indicator
                        SCTD-Indicator OPTIONAL.
    pCCPCH-Power
                                PCCPCH-Power,
    alphaValue
                                AlphaValue,
                                UL-PhysCH-SF-Variation,
    ul-PhysCH-SF-Variation
    synchronisationConfiguration
                                            SynchronisationConfiguration,
    secondary-LCR-CCPCH-Info-TDD
                                            Secondary-LCR-CCPCH-Info-TDD
                                                                                             OPTIONAL.
    ul-LCR-CCTrCHInformation
                                            UL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dl-LCR-CCTrCHInformation
                                            DL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                             OPTIONAL,
                                            DCH-InformationResponseList-RL-SetupRspTDD
                                                                                             OPTIONAL,
    dCH-InformationResponse
    dsch-LCR-InformationResponse
                                            DSCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    usch-LCR-InformationResponse
                                            USCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                             OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation
                                                                                             OPTIONAL.
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation
                                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION
                                                                                    GA-CellAdditionalShapes
                                                                                                                  PRESENCE optional }
      ID id-HCS-Prio
                                                                                                                  PRESENCE optional
                                                    CRITICALITY ignore EXTENSION
                                                                                    HCS-Prio
     ID id-UL-TimingAdvanceCtrl-LCR
                                                                                                                  PRESENCE optional
                                                    CRITICALITY ignore EXTENSION
                                                                                    UL-TimingAdvanceCtrl-LCR
    --Mandatory for 1.28Mcps TDD only
    { ID id-PowerControlGAP
                                                    CRITICALITY ignore EXTENSION ControlGAP
                                                                                                                  PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
UL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                       PRESENCE
mandatory }
UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-LCR-Information
                                UL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
                                ProtocolExtensionContainer { {UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD
                                                                         CRITICALITY ignore
                                                                                                 EXTENSION UL-SIR
                                                                                                                    PRESENCE optional },
    . . .
}
UL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocollE-Single-Container { {UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD} }
UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
```

```
ID id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod,
                                    RepetitionLength,
    repetitionLength
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                    UL-TimeslotLCR-Information,
                                    ProtocolExtensionContainer { {UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD PRESENCE
mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                DL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                OPTIONAL,
                                ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocollE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD }
DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
}
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-LCR-Information
                                    DL-TimeslotLCR-Information,
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
3
DSCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-SetupRspTDD}}
DSCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD
DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID.
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-SetupRspTDD}}
USCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD
USCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
                                TransportLayerAddress OPTIONAL,
    transportLayerAddress
    transportFormatManagement
                                TransportFormatManagement,
                                ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-InformationResponse-RL-SetupRspTDD768 ::= SEQUENCE {
    rL-ID
                                RL-ID,
    uRA-Information
                                URA-Information
                                                    OPTIONAL,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    gA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
```

```
ul-TimeSlot-ISCP-Info
                                UL-TimeSlot-ISCP-Info,
    maxUL-SIR
                                UL-SIR.
    minUL-SIR
                                UL-SIR.
                                MaximumAllowedULTxPower,
    maximumAllowedULTxPower
    maximumDLTxPower
                                DL-Power.
    minimumDLTxPower
                                DL-Power,
    uARFCNforNt
                                UARFCN
                                                     OPTIONAL,
    cellParameterID
                                CellParameterID
                                                     OPTIONAL,
    syncCase
                                SyncCase
                                                     OPTIONAL,
    sCH-TimeSlot
                                SCH-TimeSlot
                                                     OPTIONAL,
    -- This IE shall be present if Sync Case IE is equal to "Case2". --
    sCTD-Indicator
                                SCTD-Indicator OPTIONAL,
    pCCPCH-Power
                                PCCPCH-Power.
    timingAdvanceApplied
                                TimingAdvanceApplied,
    alphaValue
                                AlphaValue,
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD768
                                        Secondary-CCPCH-Info-TDD768
                                                                         OPTIONAL,
    ul-CCTrCHInformation768
                                        UL-CCTrCHInformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    dl-CCTrCHInformation768
                                        DL-CCTrCHInformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD
                                                                                     OPTIONAL,
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    dsch-InformationResponse
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-UMTS-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
    qA-CellAdditionalShapes
                                                GA-CellAdditionalShapes
                                                                             OPTIONAL.
    hCS-Prio
                                                         OPTIONAL,
                                        HCS-Prio
    timeSlot-RL-SetupRspTDD
                                        TimeSlot
                                                     OPTIONAL,
    -- This IE shall be present if Sync Case IE is Case1. --
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCHInformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD768}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768 CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD768
                                                                                                                                        PRESENCE
mandatory }
UL-CCTrCHInformationListIE-RL-SetupRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD768
UL-CCTrCHInformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information768
                                        UL-DPCH-InformationList-RL-SetupRspTDD768
                                                                                         OPTIONAL,
    uL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD768
                                                                 UL-SIR
                                                                             OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    . . .
```

```
UL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD768 } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
      ID id-UL-DPCH-InformationItem-RL-SetupRspTDD768
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD768 PRESENCE mandatory
}
UL-DPCH-InformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
                                        UL-Timeslot-Information768,
    uL-Timeslot-Information768
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs } } OPTIONAL,
    . . .
٦
UL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCHInformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD768}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768 CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD768 PRESENCE
mandatory }
}
DL-CCTrCHInformationListIE-RL-SetupRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD768
DL-CCTrCHInformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information768
                                        DL-DPCH-InformationList-RL-SetupRspTDD768
                                                                                        OPTIONAL,
    cCTrCH-Maximum-DL-Power
                                        DL-Power
                                                        OPTIONAL, -- this is a DCH type CCTrCH power
                                                        OPTIONAL, -- this is a DCH type CCTrCH power
    cCTrCH-Minimum-DL-Power
                                        DL-Power
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs} } OPTIONAL,
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD768 ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD768 } }
DL-DPCH-InformationListIEs-RL-SetupRspTDD768 RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-InformationItem-RL-SetupRspTDD768
                                                            CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD768 PRESENCE mandatory
}
```

```
DL-DPCH-InformationItem-RL-SetupRspTDD768 ::= SEQUENCE {
   repetitionPeriod
                                  RepetitionPeriod,
   repetitionLength
                                  RepetitionLength,
   tDD-DPCHOffset
                                  TDD-DPCHOffset,
    dL-Timeslot-Information768
                                  DL-Timeslot-Information768,
                                  ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
        *********
_ _
-- RADIO LINK SETUP FAILURE FDD
RadioLinkSetupFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {RadioLinkSetupFailureFDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
                                                                                                                    OPTIONAL,
   protocolExtensions
    . . .
RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                                                                                  } |
                                  CRITICALITY ignore TYPE D-RNTI
                                                                                 PRESENCE optional
     ID id-CN-PS-DomainIdentifier
                                          CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                              PRESENCE optional
     ID id-CN-CS-DomainIdentifier
                                                                                              PRESENCE optional
                                          CRITICALITY ignore TYPE CN-CS-DomainIdentifier
     ID id-CauseLevel-RL-SetupFailureFDD
                                                                            TYPE CauseLevel-RL-SetupFailureFDD
                                                      CRITICALITY ignore
                                                                                                                  PRESENCE mandatory }|
     ID id-UL-SIRTarget
                                      CRITICALITY ignore TYPE UL-SIR
                                                                                    PRESENCE optional }
     ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                              PRESENCE optional },
    . . .
}
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
   generalCause
                       GeneralCauseList-RL-SetupFailureFDD,
                       RLSpecificCauseList-RL-SetupFailureFDD,
    rLSpecificCause
    . . .
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                              Cause,
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                             UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                             SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
```

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ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional } | ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore PRESENCE optional } EXTENSION HSDSCH-FDD-Information-Response ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response PRESENCE optional }| { ID id-SixtyfourQAM-DL-SupportIndicator CRITICALITY ignore PRESENCE optional }, EXTENSION SixtyfourQAM-DL-SupportIndicator . . . } UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { { UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} } UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD PRESENCE mandatory } UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE { rL-TD RL-ID, cause Cause, ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Max-UE-DTX-Cycle CRITICALITY ignore PRESENCE conditional }, EXTENSION Max-UE-DTX-Cycle -- This IE shall be present if the Cause IE is set to "Continuous Packet Connectivity UE DTX Cycle not Available". . . . SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocollE-Single-Container { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} } SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD PRESENCE mandatory } SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE rL-TD RL-ID, rL-Set-TD RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, qA-AccessPointPosition GA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, not-Used-secondary-CCPCH-Info NULL OPTIONAL, dl-CodeInformation FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupFailureFDD, sSDT-SupportIndicator SSDT-SupportIndicator,

<pre>maxUL-SIR minUL-SIR closedlooptimingadjustmentmode maximumDlTxPower minimumDLTxPower primaryCPICH-Power primaryScramblingCode uL-UARFCN dL-UARFCN not-Used-dSCH-InformationResponse-RL-Se neighbouring-UMTS-CellInformation neighbouring-GSM-CellInformation pC-Preamble sRB-Delay iE-Extensions</pre>	minUL-SIRUL-SIR,closedlooptimingadjustmentmodeClosedlooptmaximumAllowedULTxPowerMaximumAllomaximumDLTxPowerDL-Power,minimumDLTxPowerDL-Power,primaryCPICH-PowerPrimaryCPICDprimaryCPICH-PowerPrimaryCPICDprimaryScramblingCodePrimaryScrauL-UARFCNUARFCNdL-UARFCNUARFCNnot-Used-dSCH-InformationResponse-RL-SetupFailureFDneighbouring-UMTS-CellInformationNeighbourinpC-PreamblePC-PreamblesRB-DelaySRB-Delay,iE-ExtensionsProtocolExt			OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, SSFUIRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,						
}										
{ ID id-GA-CellAdditionalShapes	ccessfulRL-InformationResponse-RL-SetupFailureFDD-Ext {    ID id-GA-CellAdditionalShapes			N ::= { ION GA-CellAdditiona	alShapes	PRESENCE	optional			
	{    ID id-DL-PowerBalancing-ActivationIndicator		e EXTENS	XTENSION DL-PowerBalancing-ActivationIndicator		PRESENCE optional				
}  { ID id-HCS-Prio	{ ID id-HCS-Prio		e EXTENS	ION HCS-Prio		PRESENCE optional				
<pre>}  { ID id-Primary-CPICH-Usage-For-Channel</pre>	{ ID id-Primary-CPICH-Usage-For-Channel-Estimation		e EXTENS	ENSION Primary-CPICH-Usage-For-Channel-Estimation			PRESENCE			
optional }  { ID id-Secondary-CPICH-Information	CRITICALITY ignore	e EXTENS	ION Secondary-CPICH-	Information	PRESENCE					
optional }  { ID id-Active-MBMS-Bearer-ServiceFDD-F	5		-	Bearer-Service-ListFDD-PFL		PRESENCE				
optional }	-	-				I REGENCE				
{ ID id-EDCH-RLSet-Id optional }	CRITICALITY ignore	e EXTENS	INSION RL-Set-ID			PRESENCE				
{ ID id-EDCH-FDD-DL-ControlChannelInfor optional }	CRITICALITY ignore	e EXTENS	XTENSION EDCH-FDD-DL-ControlChannelInformation			PRESENCE				
{ ID id-Initial-DL-DPCH-TimingAdjustmen	CRITICALITY ignore	e EXTENS	TENSION 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,									
···										
5										
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DCH-InformationResponse     CRITICALITY ignore EXTENSION DCH-InformationResponse     PRESENCE optional }										

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{ ID id-EDCH-FDD-InformationResponse
                                         CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                        PRESENCE optional },
    . . .
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
   dCH-InformationResponse
                                         DCH-InformationResponse,
   iE-Extensions
                                         ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse
                                        CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                        PRESENCE optional },
   . . .
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
-- RADIO LINK SETUP FAILURE TDD
- -
  RadioLinkSetupFailureTDD ::= SEQUENCE {
                                                            {{RadioLinkSetupFailureTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
                                                                                                                   OPTIONAL,
    . . .
}
RadioLinkSetupFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-RL-SetupFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD
                                                                                                  PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
   generalCause
                     GeneralCauseList-RL-SetupFailureTDD,
   rLSpecificCause
                      RLSpecificCauseList-RL-SetupFailureTDD,
    . . .
}
GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
    cause
                              Cause,
                              ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs } }
   iE-Extensions
                                                                                                          OPTIONAL,
    . . .
}
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
```

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```

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unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
   iE-Extensions
                                                         ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs } }
   OPTIONAL.
    . . .
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD}
}
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD
                                                                        CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
SetupFailureTDD
                  PRESENCE
                              mandatory
}
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   cause
                              Cause,
                                  ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::=
    . . .
  - -
-- RADIO LINK ADDITION REQUEST FDD
  *****
RadioLinkAdditionReguestFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                            {{RadioLinkAdditionRequestFDD-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                                     OPTIONAL,
    . . .
}
RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-UL-SIRTarget
                                     CRITICALITY reject TYPE UL-SIR
                                                                                   PRESENCE mandatory }
     ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD PRESENCE mandatory }
     ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    . . .
}
RL-InformationList-RL-AdditionRqstFDD
                                           ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Information-RL-
AdditionRqstFDD-IEs } }
```

RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-AdditionRgstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRgstFDD PRESENCE mandatory RL-Information-RL-AdditionRgstFDD ::= SEQUENCE { rL-TD RL-ID, c-ID C-ID, frameOffset FrameOffset, chipOffset ChipOffset, DiversityControlField, diversityControlField primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL, not-Used-sSDT-CellID NULL OPTIONAL. transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL. iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRgstFDD-ExtIEs} } OPTIONAL, . . . RL-Information-RL-AdditionRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DLReferencePower CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } ID id-Enhanced-PrimaryCPICH-EcNo CRITICALITY iqnore EXTENSION Enhanced-PrimaryCPICH-EcNo PRESENCE optional } | ID id-RL-Specific-DCH-Info EXTENSION RL-Specific-DCH-Info PRESENCE optional } | CRITICALITY ignore ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional } ID id-RL-Specific-EDCH-Information EXTENSION RL-Specific-EDCH-Information CRITICALITY reject PRESENCE optional }| ID id-EDCH-RL-Indication EXTENSION EDCH-RL-Indication PRESENCE CRITICALITY reject optional }| { ID id-SynchronisationIndicator EXTENSION SynchronisationIndicator PRESENCE optional }, CRITICALITY ignore . . . RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DPC-Mode CRITICALITY reject EXTENSION DPC-Mode PRESENCE optional }| ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional } | { ID id-Serving-EDCHRL-Id CRITICALITY reject EXTENSION EDCH-Serving-RL PRESENCE optional } ID id-Initial-DL-DPCH-TimingAdjustment-Allowed CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional }| { ID id-HS-DSCH-serving-cell-change-information CRITICALITY reject EXTENSION HS-DSCH-serving-cell-change-information PRESENCE optional }| { ID id-Serving-cell-change-CFN CRITICALITY reject EXTENSION CFN PRESENCE optional }| { ID id-EDPCH-Information CRITICALITY reject EXTENSION EDPCH-Information-RLAdditionReg-FDD PRESENCE optional } { ID id-EDCH-FDD-Information CRITICALITY reject EXTENSION EDCH-FDD-Information PRESENCE optional }. -- This IE shall be present if E-DPCH Information is present . . . } EDPCH-Information-RLAdditionReq-FDD::= SEQUENCE maxSet-E-DPDCHs Max-Set-E-DPDCHs, ul-PunctureLimit PunctureLimit,

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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, iE-Extensions ProtocolExtensionContainer { { EDPCH-Information-RLAdditionReg-FDD-ExtIEs } } OPTIONAL, . . . EDPCH-Information-RLAdditionReg-FDD-ExtIEs RNSAP-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 \*\*\*\*\* RadioLinkAdditionRequestTDD ::= SEQUENCE { ProtocolIE-Container protocolIEs {{RadioLinkAdditionRequestTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . 3 RadioLinkAdditionRequestTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-RL-AdditionRqstTDD CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD PRESENCE mandatory }, . . . RL-Information-RL-AdditionRgstTDD ::= SEQUENCE { rL-ID RL-ID, C-TD C-ID, frameOffset FrameOffset, diversityControlField DiversityControlField, primaryCCPCH-RSCP PrimaryCCPCH-RSCP OPTIONAL, dL-TimeSlot-ISCP-Info DL-TimeSlot-ISCP-Info OPTIONAL, --for 3.84Mcps TDD only ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-Information-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional }| --for 1.28Mcps TDD only { ID id-RL-Specific-DCH-Info EXTENSION RL-Specific-DCH-Info PRESENCE CRITICALITY ignore 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-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta PRESENCE optional },

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. . .
}
RadioLinkAdditionRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Permanent-NAS-UE-Identity
                                                   CRITICALITY ignore
                                                                               EXTENSION Permanent-NAS-UE-Identity PRESENCE optional }
     ID id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                                         CRITICALITY notify EXTENSION UL-CCTrCH-InformationList-RL-AdditionRgstTDD PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
                                                           CRITICALITY notify EXTENSION DL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE
optional }|
     ID id-HSDSCH-TDD-Information
                                                           CRITICALITY reject
                                                                                   EXTENSION HSDSCH-TDD-Information
                                                                                                                           PRESENCE optional
     ID id-HSPDSCH-RL-ID
                                                                                                                           PRESENCE optional
                                                           CRITICALITY reject
                                                                                   EXTENSION RL-ID
                                                                                                                           PRESENCE optional
     ID id-E-DCH-Information
                                                           CRITICALITY reject
                                                                                   EXTENSION E-DCH-Information
                                                           CRITICALITY reject
     ID id-E-DCH-Serving-RL-ID
                                                                                                                           PRESENCE optional
                                                                                   EXTENSION RL-ID
     ID id-E-DCH-768-Information
                                                           CRITICALITY reject
                                                                                   EXTENSION E-DCH-768-Information
                                                                                                                           PRESENCE optional }
    { ID id-E-DCH-LCR-Information
                                                           CRITICALITY reject
                                                                                                                           PRESENCE optional },
                                                                                   EXTENSION E-DCH-LCR-Information
    . . .
UL-CCTrCH-InformationList-RL-AdditionRgstTDD
                                              := SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { { UL-CCTrCH-
InformationItemIEs-RL-AdditionRgstTDD} }
UL-CCTrCH-InformationItemIEs-RL-AdditionRgstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-AdditionRgstTDD PRESENCE
optional}.
    . . .
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
                               TDD-TPC-UplinkStepSize-LCR
    uplinkStepSizeLCR
                                                             OPTIONAL,
    -- Applicable to 1.28Mcps TDD only
    iE-Extensions
                               ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    . . .
UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-
InformationItemIEs-RL-AdditionRqstTDD } }
DL-CCTrCH-InformationItemIEs-RL-AdditionRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationItem-RL-AdditionRgstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-AdditionRgstTDD PRESENCE
optional},
    . . .
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    downlinkStepSize
                               TDD-TPC-DownlinkStepSize OPTIONAL,
    iE-Extensions
                               ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    . . .
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DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- RADIO LINK ADDITION RESPONSE FDD RadioLinkAdditionResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}} OPTIONAL. . . . 3 RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseList-RL-AdditionRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD PRESENCE mandatory } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} } RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-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, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, gA-AccessPointPosition GA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, not-Used-secondary-CCPCH-Info NULL OPTIONAL, dl-CodeInformation DL-CodeInformationList-RL-AdditionRspFDD, diversityIndication DiversityIndication-RL-AdditionRspFDD, sSDT-SupportIndicator SSDT-SupportIndicator, minUL-SIR UL-SIR, maxUL-SIR UL-SIR, closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, pC-Preamble PC-Preamble,

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sRB-Delay
                                        SRB-Delay,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    iE-Extensions
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                                    CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                                              PRESENCE optional }|
      ID id-DL-PowerBalancing-ActivationIndicator
                                                    CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                              PRESENCE optional }
                                                                                                                              PRESENCE optional }
      ID id-HCS-Prio
                                                    CRITICALITY ignore EXTENSION HCS-Prio
     ID id-Active-MBMS-Bearer-ServiceFDD-PFL
                                                        CRITICALITY iqnore EXTENSION Active-MBMS-Bearer-Service-ListFDD-PFL
                                                                                                                                      PRESENCE
optional }|
     ID id-EDCH-RLSet-Id
                                                    CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                              PRESENCE optional }
      ID id-EDCH-FDD-DL-ControlChannelInformation
                                                    CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                              PRESENCE optional
      ID id-Initial-DL-DPCH-TimingAdjustment
                                                    CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                              PRESENCE optional
     ID id-F-DPCH-SlotFormat
                                                    CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
                                                                                                                              PRESENCE optional },
    . . .
DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocollE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionRspFDD,
    nonCombining
                                    NonCombining-RL-AdditionRspFDD
Combining-RL-AdditionRspFDD ::= SEQUENCE {
    rL-TD
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
     ID id-EDCH-FDD-InformationResponse
                                            CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
}
NonCombining-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                            DCH-InformationResponse,
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
}
```

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RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
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{ ID id-HS-DSCH-serving-cell-change-informationResponse CRITICALITY ignore EXTENSION HS-DSCH-serving-cell-change-informationResponse PRESENCE optional } { ID id-E-DCH-Serving-cell-change-informationResponse CRITICALITY ignore EXTENSION E-DCH-Serving-cell-change-informationResponse PRESENCE optional } | { ID id-MAChs-ResetIndicator CRITICALITY ignore EXTENSION MAChs-ResetIndicator PRESENCE optional }, . . . RADIO LINK ADDITION RESPONSE TDD - -RadioLinkAdditionResponseTDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkAdditionResponseTDD-IEs}}, protocolIEs ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}} protocolExtensions OPTIONAL, . . . 3 RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE optional } --Mandatory for 3.84Mcps TDD only { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE { rL-ID RL-ID, uRA-Information URA-Information OPTIONAL, SAT SAI, qA-Cell GA-Cell OPTIONAL, GA-AccessPointPosition OPTIONAL, qA-AccessPointPosition ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, minUL-SIR UL-SIR, maxUL-SIR UL-SIR, MaximumAllowedULTxPower, maximumAllowedULTxPower maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, pCCPCH-Power PCCPCH-Power, timingAdvanceApplied TimingAdvanceApplied, AlphaValue, alphaValue ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL, ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL, dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL, dCH-Information DCH-Information-RL-AdditionRspTDD OPTIONAL, DSCH-InformationResponse-RL-AdditionRspTDD dSCH-InformationResponse OPTIONAL, uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL, neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL,

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ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
     ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                        PRESENCE optional }|
                                CRITICALITY ignore EXTENSION HCS-Prio
     ID id-HCS-Prio
                                                                                 PRESENCE optional },
    . . .
}
UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                      PRESENCE
mandatory }
UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocollE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                    RepetitionLength,
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
```

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{ ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                       PRESENCE
mandatory }
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD
                                                             CRITICALITY ignore
                                                                                                             PRESENCE optional } | -- this is a DCH
                                                                                     EXTENSION DL-Power
type CCTrCH power
                                                                                                             PRESENCE optional }, -- this is a DCH
    { ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD
                                                             CRITICALITY ignore
                                                                                     EXTENSION DL-Power
type CCTrCH power
    . . .
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DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocollE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
      ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD
                                                             CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
                    Combining-RL-AdditionRspTDD,
    combining
```

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nonCombining
                   NonCombining-RL-AdditionRspTDD
3
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                               RL-ID.
   iE-Extensions
                               ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                     CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                      PRESENCE optional },
    . . .
}
NonCombining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse
                             DCH-InformationResponse,
   iE-Extensions
                                   ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
}
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponse-RL-AdditionRspTDD ::= Protocolle-Single-Container {{DSCH-InformationListles-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD
                                                     CRITICALITY ignore TYPE DSCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                           PRESENCE mandatory
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation
                                   DSCH-FlowControlInformation,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions
                   ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
3
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
   iE-Extensions
                           ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
    . . .
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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}
USCH-InformationResponse-RL-AdditionRspTDD ::= Protocolle-Single-Container {{USCH-InformationListles-RL-AdditionRspTDD}}
USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD
                                                      CRITICALITY ignore TYPE USCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                             PRESENCE mandatory }
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID
                            USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversityIndication
                          DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions
                           ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-AdditionRspTDD
                                                            CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                RL-LCR-InformationResponse-RL-AdditionRspTDD
    PRESENCE optional
                       }|
    --Mandatory for 1.28Mcps TDD only
    { ID id-Active-MBMS-Bearer-ServiceTDD-PFL
                                                            CRITICALITY ignore
                                                                                     EXTENSION Active-MBMS-Bearer-Service-ListTDD-PFL
    PRESENCE optional } |
    { ID id-HSDSCH-TDD-Information-Response
                                                            CRITICALITY ignore
                                                                                     EXTENSION HSDSCH-TDD-Information-Response
    PRESENCE optional }
    { ID id-DSCH-RNTI
                                                                                     EXTENSION DSCH-RNTI
                                                            CRITICALITY ignore
    PRESENCE optional }|
    { ID id-RL-InformationResponse-RL-AdditionRspTDD768
                                                            CRITICALITY ignore
                                                                                     EXTENSION RL-InformationResponse-RL-AdditionRspTDD768
        PRESENCE optional } |
    { ID id-E-DCH-Information-Response
                                                            CRITICALITY ignore
                                                                                     EXTENSION E-DCH-Information-Response
    PRESENCE optional }|
    { ID id-E-DCH-768-Information-Response
                                                            CRITICALITY ignore
                                                                                     EXTENSION E-DCH-768-Information-Response
    PRESENCE optional
                      }|
    { ID id-E-DCH-LCR-Information-Response
                                                            CRITICALITY ignore
                                                                                     EXTENSION E-DCH-LCR-Information-Response
    PRESENCE optional },
    . . .
RL-LCR-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE
    rL-TD
                                RL-ID,
    uRA-Information
                                URA-Information,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    qA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR,
    pCCPCH-Power
                                PCCPCH-Power,
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maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power. minimumDLTxPower DL-Power. alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondarv-LCR-CCPCH-Info-TDD Secondary-LCR-CCPCH-Info-TDD OPTIONAL, ul-CCTrCH-LCR-Information UL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD OPTIONAL, dl-CCTrCH-LCR-Information DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD OPTIONAL, DCH-InformationResponseList-RL-AdditionRspTDD dCH-InformationResponse OPTIONAL, DSCH-LCR-InformationResponse-RL-AdditionRspTDD dsch-LCR-InformationResponse OPTIONAL, USCH-LCR-InformationResponse-RL-AdditionRspTDD usch-LCR-InformationResponse OPTIONAL, Neighbouring-UMTS-CellInformation neighbouring-UMTS-CellInformation OPTIONAL. neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, . . . RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional }| ID id-HCS-Prio PRESENCE optional CRITICALITY ignore EXTENSION HCS-Prio ID id-UL-TimingAdvanceCtrl-LCR CRITICALITY ignore EXTENSION PRESENCE optional } UL-TimingAdvanceCtrl-LCR --Mandatory for 1.28Mcps TDD only { ID id-PowerControlGAP PRESENCE optional } CRITICALITY ignore EXTENSION ControlGAP -- Applicable to 1.28Mcps TDD only { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional }, -- Applicable to 1.28Mcps TDD only . . . UL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD }} UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD PRESENCE mandatory } } UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID. ul-DPCH-LCR-Information UL-DPCH-LCR-InformationList-RL-AdditionRspTDD OPTIONAL, ProtocolExtensionContainer { { UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . UL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { { UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } } UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {

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{ ID id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
                                    RepetitionLength,
    repetitionLength
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                    UL-TimeslotLCR-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD}
DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD
PRESENCE mandatory }
}
DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                DL-DPCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEOUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                    DL-TimeslotLCR-Information,
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
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DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DCH-InformationResponseListIEs-RL-AdditionRspTDD}}
DCH-InformationResponseListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                           TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-AdditionRspTDD}}
DSCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
}
DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-AdditionRspTDD
DSCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-TD
                           DSCH-ID,
    dSCH-FlowControlInformation
                                   DSCH-FlowControlInformation,
                           BindingID OPTIONAL,
    bindingID
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-AdditionRspTDD}}
USCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
USCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-AdditionRspTDD
USCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    usch-ID
                               USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversityIndication
                               DiversityIndication-RL-AdditionRspTDD2
                                                                           OPTIONAL,
    iE-Extensions
                               ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL.
    . . .
USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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RL-InformationResponse-RL-AdditionRspTDD768 ::= SEQUENCE {
    rL-TD
                                        RL-ID.
    uRA-Information
                                        URA-Information
                                                             OPTIONAL.
    sAI
                                        SAI.
    qA-Cell
                                        GA-Cell
                                                     OPTIONAL.
    qA-AccessPointPosition
                                        GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-Info
                                        UL-TimeSlot-ISCP-Info,
    minUL-SIR
                                        UL-SIR,
    maxUL-STR
                                        UL-SIR,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    pCCPCH-Power
                                        PCCPCH-Power.
    timingAdvanceApplied
                                        TimingAdvanceApplied,
    alphaValue
                                        AlphaValue,
    ul-PhysCH-SF-Variation
                                        UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD768
                                        Secondary-CCPCH-Info-TDD768
                                                                                         OPTIONAL,
    ul-CCTrCHInformation768
                                        UL-CCTrCHInformationList-RL-AdditionRspTDD768
                                                                                             OPTIONAL,
    dl-CCTrCHInformation768
                                        DL-CCTrCHInformationList-RL-AdditionRspTDD768
                                                                                             OPTIONAL.
    dCH-Information
                                        DCH-Information-RL-AdditionRspTDD
                                                                                         OPTIONAL,
                                        DSCH-InformationResponse-RL-AdditionRspTDD
    dSCH-InformationResponse
                                                                                         OPTIONAL,
    uSCH-InformationResponse
                                        USCH-InformationResponse-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    qA-CellAdditionalShapes
                                        GA-CellAdditionalShapes
                                                                         OPTIONAL,
    hCS-Prio
                                        HCS-Prio
                                                                         OPTIONAL,
                                        ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponse-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCHInformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD768}}
UL-CCTrCHInformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= ·
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD768
                                                                                                                                             PRESENCE
mandatory }
UL-CCTrCHInformationListIE-RL-AdditionRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD768
UL-CCTrCHInformationItem-RL-AdditionRspTDD768 ::= SEOUENCE {
    CCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information768
                                        UL-DPCH-InformationList-RL-AdditionRspTDD768
                                                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
UL-DPCH-InformationList-RL-AdditionRspTDD768 ::= ProtocollE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD768 }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                           CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD768 PRESENCE
mandatory }
}
UL-DPCH-InformationItem-RL-AdditionRspTDD768 ::= SEQUENCE
    repetitionPeriod
                                   RepetitionPeriod,
    repetitionLength
                                   RepetitionLength,
                                   TDD-DPCHOffset,
    tDD-DPCHOffset
    uL-Timeslot-Information768
                                       UL-Timeslot-Information768,
    iE-Extensions
                                   ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
DL-CCTrCHInformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD768}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD768
                                                                                                                                          PRESENCE
mandatory }
DL-CCTrCHInformationListIE-RL-AdditionRspTDD768 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD768
DL-CCTrCHInformationItem-RL-AdditionRspTDD768 ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    dl-DPCH-Information768
                                       DL-DPCH-InformationList-RL-AdditionRspTDD768
                                                                                            OPTIONAL.
    cCTrCH-Maximum-DL-Power
                                       DL-Power OPTIONAL, -- this is a DCH type CCTrCH power
                                       DL-Power OPTIONAL, -- this is a DCH type CCTrCH power
    cCTrCH-Minimum-DL-Power
                                   ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD768 ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD768 }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD768 RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD768
                                                          CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD768 PRESENCE
mandatory }
}
DL-DPCH-InformationItem-RL-AdditionRspTDD768 ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                   TDD-DPCHOffset,
```

```
dL-Timeslot-Information768
                                  DL-Timeslot-Information768,
   iE-Extensions
                                  ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-AdditionRspTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK ADDITION FAILURE FDD
      ******
RadioLinkAdditionFailureFDD ::= SEQUENCE {
                                  ProtocolIE-Container
                                                             {RadioLinkAdditionFailureFDD-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
   . . .
3
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                                                              TYPE CauseLevel-RL-AdditionFailureFDD
                                                             CRITICALITY
                                                                            ignore
           PRESENCE
                     mandatory }|
    { ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
3
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
                      GeneralCauseList-RL-AdditionFailureFDD,
   generalCause
   rLSpecificCause
                      RLSpecificCauseList-RL-AdditionFailureFDD,
    . . .
GeneralCauseList-RL-AdditionFailureFDD ::= SEOUENCE
   cause
                                              Cause,
   iE-Extensions
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                OPTIONAL,
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
   unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
                                              ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
J
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {
{UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                         CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                        PRESENCE mandatory }
}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE
    rL-ID
                                    RL-ID,
    cause
                                    Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs } }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                         CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-
AdditionFailureFDD
                        PRESENCE mandatory }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID,
    uRA-Information
                                        URA-Information
                                                            OPTIONAL,
    SAT
                                        SAI,
    qA-Cell
                                        GA-Cell
                                                    OPTIONAL,
    qA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
                                        Received-total-wide-band-power,
    received-total-wide-band-power
    not-Used-secondary-CCPCH-Info
                                                NULL
                                                            OPTIONAL,
    dl-CodeInformation
                                        DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication
                                        DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator
                                        SSDT-SupportIndicator,
    minUL-SIR
                                        UL-SIR,
    maxUL-SIR
                                        UL-SIR,
    closedlooptimingadjustmentmode
                                        Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delay
                                        SRB-Delay,
                                        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
. . .
}
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-GA-CellAdditionalShapes
                                                        CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                                                    PRESENCE optional
} |
     ID id-DL-PowerBalancing-ActivationIndicator
                                                        CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
                                                                                                                                    PRESENCE optional
}|
      ID id-HCS-Prio
                                                        CRITICALITY ignore EXTENSION HCS-Prio
                                                                                                                                 PRESENCE optional }|
     ID id-Active-MBMS-Bearer-ServiceFDD-PFL
                                                            CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD-PFL
                                                                                                                                         PRESENCE
optional }|
      ID id-EDCH-RLSet-Id
                                                         CRITICALITY ignore EXTENSION RL-Set-ID
                                                                                                                                 PRESENCE optional } |
      ID id-EDCH-FDD-DL-ControlChannelInformation
                                                        CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation
                                                                                                                                 PRESENCE optional }|
     ID id-Initial-DL-DPCH-TimingAdjustment
                                                        CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
                                                                                                                                 PRESENCE optional },
    . . .
3
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionFailureFDD,
    nonCombining
                                    NonCombining-RL-AdditionFailureFDD
3
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
      ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
    { ID id-EDCH-FDD-InformationResponse
                                            CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                               DCH-InformationResponse,
    iE-Extensions
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse
                                                                                                              PRESENCE optional },
    . . .
}
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-DSCH-serving-cell-change-informationResponse CRITICALITY ignore EXTENSION HS-DSCH-serving-cell-change-informationResponse
    PRESENCE optional } |
```

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{ ID id-E-DCH-Serving-cell-change-informationResponse CRITICALITY ignore EXTENSION E-DCH-Serving-cell-change-informationResponse PRESENCE optional }, . . . - --- RADIO LINK ADDITION FAILURE TDD RadioLinkAdditionFailureTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionFailureTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}} OPTIONAL, . . . 3 RadioLinkAdditionFailureTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-CauseLevel-RL-AdditionFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureTDD PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . CauseLevel-RL-AdditionFailureTDD ::= CHOICE { generalCause GeneralCauseList-RL-AdditionFailureTDD, rLSpecificCause RLSpecificCauseList-RL-AdditionFailureTDD, . . . } GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE { cause Cause, iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs} } OPTIONAL, . . . GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE { unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD, ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs } iE-Extensions OPTIONAL, . . . RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container { {Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD } }

```
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
```

```
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD
                                                                        CRITICALITY iqnore
                                                                                           TYPE UnsuccessfulRL-InformationResponse-RL-
    { ID
AdditionFailureTDD PRESENCE mandatory }
}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD ::= SEQUENCE
   rL-ID
                              RL-ID,
   cause
                              Cause,
   iE-Extensions
                              ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs } } OPTIONAL,
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
-- RADIO LINK DELETION REQUEST
- -
  RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkDeletionRequest-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}
                                                                                                                  OPTIONAL,
    . . .
}
RadioLinkDeletionRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationList-RL-DeletionRqst CRITICALITY notify TYPE RL-InformationList-RL-DeletionRqst
                                                                                                          PRESENCE mandatory
                                                                                                                             }.
    . . .
RL-InformationList-RL-DeletionRqst
                                         ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-DeletionRqst-
IEs} }
RL-Information-RL-DeletionRqst-IEs RNSAP-PROTOCOL-IES ::=
    { ID id-RL-Information-RL-DeletionRqst
                                             CRITICALITY notify TYPE RL-Information-RL-DeletionRqst
                                                                                                   PRESENCE mandatory
RL-Information-RL-DeletionRqst ::= SEQUENCE {
   rL-ID
                              RL-ID,
   iE-Extensions
                              ProtocolExtensionContainer { {RL-Information-RL-DeletionRqst-ExtIEs } } OPTIONAL,
    . . .
}
RL-Information-RL-DeletionRgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::=
```

. . . -- RADIO LINK DELETION RESPONSE - -\*\*\*\*\* RadioLinkDeletionResponse ::= SEQUENCE { {{RadioLinkDeletionResponse-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}} OPTIONAL, . . . RadioLinkDeletionResponse-IEs RNSAP-PROTOCOL-IES ::= { { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RadioLinkDeletionResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . -- RADIO LINK RECONFIGURATION PREPARE FDD RadioLinkReconfigurationPrepareFDD ::= SEQUENCE { protocolIEs {{RadioLinkReconfigurationPrepareFDD-IEs}}, ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } 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 CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }, . . . UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE { ul-ScramblingCode UL-ScramblingCode OPTIONAL, UL-SIR ul-SIRTarget OPTIONAL,

```
minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs
                                    MaxNrOfUL-DPCHs
                                                            OPTIONAL
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit
                                    PunctureLimit
                                                            OPTIONAL.
    + FCS
                                    TFCS OPTIONAL.
    ul-DPCCH-SlotFormat
                                    UL-DPCCH-SlotFormat
                                                            OPTIONAL,
    diversityMode
                                    DiversityMode
                                                            OPTIONAL,
    not-Used-sSDT-CellIDLength
                                    NULL
                                                OPTIONAL,
    not-Used-s-FieldLength
                                    NULL
                                                    OPTIONAL,
                                    ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject
                                                            EXTENSION UL-DPDCHIndicatorEDCH PRESENCE optional },
    . . .
}
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
    tFCS
                                    TFCS
                                            OPTIONAL,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat
                                                            OPTIONAL,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes OPTIONAL
    tFCI-SignallingMode
                                    TFCI-SignallingMode
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is from 12 to 16 --,
    multiplexingPosition
                                    MultiplexingPosition
                                                                OPTIONAL,
   limitedPowerIncrease
                                    LimitedPowerIncrease
                                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-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,
                                            ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
    pO2-ForTPC-Bits
                                            PowerOffset,
    pO3-ForPilotBits
                                            PowerOffset,
    iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs } OPTIONAL,
```

```
. . .
PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-ReconfPrepFDD-
IEs} }
RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD
                                                                                                              PRESENCE mandatory
RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID
                                RL-ID.
    not-Used-sSDT-Indication
                                        NULL
                                                    OPTIONAL,
    not-Used-sSDT-CellIdentity
                                        NULL
                                                    OPTIONAL,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                    OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none"
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-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-Phase-Reference-Update-Indicator
                                                CRITICALITY ignore EXTENSION Phase-Reference-Update-Indicator PRESENCE optional }
                                                                                                                    PRESENCE optional }|
     ID id-RL-Specific-EDCH-Information
                                                                        EXTENSION RL-Specific-EDCH-Information
                                                CRITICALITY reject
     ID id-EDCH-RL-Indication
                                                CRITICALITY reject
                                                                        EXTENSION EDCH-RL-Indication
                                                                                                                    PRESENCE optional },
    . . .
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-FDD-Information
                                                            CRITICALITY reject EXTENSION HSDSCH-FDD-Information
                                                                                                                                PRESENCE optional }
     ID id-HSDSCH-Information-to-Modify
                                                            CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
                                                                                                                                PRESENCE optional }
                                                                                                                                PRESENCE optional }
     ID id-HSDSCH-MACdFlows-to-Add
                                                            CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
     ID id-HSDSCH-MACdFlows-to-Delete
                                                                                                                                PRESENCE optional }
                                                            CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
     ID id-HSPDSCH-RL-ID
                                                            CRITICALITY reject EXTENSION RL-ID
                                                                                                                                PRESENCE optional }
     ID id-EDPCH-Information
                                                            CRITICALITY reject EXTENSION EDPCH-Information-RLReconfPrepare-FDD
    PRESENCE optional } |
```

```
ID id-EDCH-FDD-Information
                                                          CRITICALITY reject EXTENSION EDCH-FDD-Information
                                                                                                                           PRESENCE optional }
     ID id-EDCH-FDD-Information-To-Modify
                                                         CRITICALITY reject EXTENSION EDCH-FDD-Information-To-Modify
                                                                                                                           PRESENCE optional }
     ID id-EDCH-MACdFlows-To-Add
                                                         CRITICALITY reject EXTENSION EDCH-MACdFlows-Information
                                                                                                                           PRESENCE optional }
     ID id-EDCH-MACdFlows-To-Delete
                                                         CRITICALITY reject EXTENSION EDCH-MACdFlows-To-Delete
                                                                                                                           PRESENCE optional }
     ID id-Serving-EDCHRL-Id
                                                          CRITICALITY reject EXTENSION EDCH-Serving-RL
                                                                                                                           PRESENCE optional }
     ID id-F-DPCH-Information-RL-ReconfPrepFDD
                                                         CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD
                                                                                                                          PRESENCE 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 },
    . . .
F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE
    powerOffsetInformation
                                  PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
    fdd-dl-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 RNSAP-PROTOCOL-EXTENSION ::=
     ID id-F-DPCH-SlotFormatSupportRequest
                                              CRITICALITY reject
                                                                         EXTENSION F-DPCH-SlotFormatSupportRequest
                                                                                                                     PRESENCE optional }|
     ID id-F-DPCH-SlotFormat
                                          CRITICALITY ignore EXTENSION F-DPCH-SlotFormat
                                                                                            PRESENCE optional },
    . . .
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE {
   po2-ForTPC-Bits
                                   PowerOffset,
    --This IE shall be ignored by DRNS
                                   ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs } }
   iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
     _ _
-- RADIO LINK RECONFIGURATION PREPARE TDD
  RadioLinkReconfigurationPrepareTDD ::= SEOUENCE {
                                                             {{RadioLinkReconfigurationPrepareTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}
   protocolExtensions
                                                                                                                              OPTIONAL,
    . . .
RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                      CRITICALITY reject TYPE AllowedQueuingTime
                                                                                            PRESENCE optional }
     ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDDPRESENCE optional
```

```
{ ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                               CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE
optional
         } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                                                                                                         PRESENCE
optional } |
     ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                           CRITICALITY notify TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDDPRESENCE optional
     ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                               CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                               CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE
optional } |
                                   CRITICALITY reject TYPE TDD-DCHs-to-Modify
     ID id-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-ReconfPrepTDD
                                               CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD
                                                                                                            PRESENCE optional }|
     ID id-DSCH-ModifyList-RL-ReconfPrepTDD
                                               CRITICALITY reject TYPE DSCH-ModifyList-RL-ReconfPrepTDD
                                                                                                            PRESENCE optional }
     ID id-DSCHs-to-Add-TDD
                                   CRITICALITY reject TYPE DSCH-TDD-Information
                                                                                           PRESENCE optional } |
     ID id-DSCH-DeleteList-RL-ReconfPrepTDD
                                               CRITICALITY reject TYPE DSCH-DeleteList-RL-ReconfPrepTDD
                                                                                                            PRESENCE optional
     ID id-USCH-ModifyList-RL-ReconfPrepTDD
                                               CRITICALITY reject TYPE USCH-ModifyList-RL-ReconfPrepTDD
                                                                                                            PRESENCE optional
     ID id-USCHs-to-Add
                               CRITICALITY reject TYPE USCH-Information
                                                                                   PRESENCE optional } |
     ID id-USCH-DeleteList-RL-ReconfPrepTDD
                                               CRITICALITY reject TYPE USCH-DeleteList-RL-ReconfPrepTDD
                                                                                                            PRESENCE optional },
    . . .
                                                   ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
AddInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD PRESENCE mandatory }
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    tFCS
                               TFCS,
    tFCI-Coding
                               TFCI-Coding,
                                   PunctureLimit,
    punctureLimit
                                   ProtocolExtensionContainer { { UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                               CRITICALITY reject
                                                       EXTENSION
                                                                       UL-SIR
                                                                                   PRESENCE optional } |
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD or 7.68Mcps TDD.
    { ID id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional
       },
    -- Mandatory for 1.28Mcps TDD, not applicable to 3.84Mcps TDD or 7.68Mcps TDD
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                       ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD PRESENCE
mandatory }
```

```
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
                                            OPTIONAL,
    tFCS
                                TFCS
    tFCI-Coding
                                TFCI-Coding
                                                        OPTIONAL.
                                                                OPTIONAL,
    punctureLimit
                                   PunctureLimit
                                    ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                        UL-SIR
                                                                                    PRESENCE optional } |
    -- This IE shall be applicable for 1.28Mcps TDD only.
    { ID id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR
                                                                                                                                        PRESENCE
    optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                       ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { { UL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD-IEs} }
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD PRESENCE
mandatory }
}
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
                                    ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                                   := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
AddInformation-RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE
mandatory }
}
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,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
```

```
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional
       },
    . . .
ι
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
                                    ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                      := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD PRESENCE
mandatory }
}
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                       CCTrCH-ID,
    tFCS
                               TFCS
                                           OPTIONAL,
                                                       OPTIONAL,
    tFCI-Coding
                             TFCI-Coding
                                 PunctureLimit
    punctureLimit
                                                               OPTIONAL,
    cCTrCH-TPCList
                                   CCTrCH-TPCModifyList-RL-ReconfPrepTDD
                                                                                OPTIONAL,
                                   ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD CRITICALITY reject
                                                                                               EXTENSION TDD-TPC-DownlinkStepSize PRESENCE
    optional},
    . . .
3
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
                                      ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
                                   ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs } } DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD PRESENCE mandatory } } DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL, iE-Extensions . . . DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { dCH-TD DCH-ID, ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL. iE-Extensions . . . DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { dSCH-ID DSCH-ID, dl-ccTrCHID CCTrCH-ID OPTIONAL, trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL, transportFormatSet TransportFormatSet OPTIONAL, allocationRetentionPriority AllocationRetentionPriority OPTIONAL, schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL, bLER BLER OPTIONAL, transportBearerRequestIndicator TransportBearerRequestIndicator, iE-Extensions ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass PRESENCE optional } 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 TnlOos PRESENCE optional }, EXTENSION -- Shall be ignored if bearer establishment with ALCAP.

```
. . .
DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-ReconfPrepTDD
DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
                                    ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-ReconfPrepTDD
USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   uSCH-ID
                                        USCH-ID,
    ul-ccTrCHID
                                        CCTrCH-ID
                                                                        OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                        OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                        OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                        OPTIONAL,
    bLER
                                        BLER
                                                                        OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    rb-Info
                                        RB-Info
                                                                        OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    . . .
J
USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-TrafficClass
                          CRITICALITY ignore EXTENSION TrafficClass
                                                                                             PRESENCE optional } |
    { 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
                                                                                                           optional },
                                                        ignore
                                                                    EXTENSION
                                                                                Tnl0os
                                                                                             PRESENCE
    . . .
USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-ReconfPrepTDD
USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                        USCH-ID.
                                    ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkReconfigurationPrepareTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
```

```
ID id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD
                                                                                                 PrimaryCCPCH-RSCP PRESENCE optional } |
                                                             CRITICALITY ignore
                                                                                     EXTENSION
     ID id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD
                                                             CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 DL-TimeSlot-ISCP-Info PRESENCE optional }
     ID id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD
                                                             CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 DL-TimeSlot-ISCP-LCR-Information 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-Delete
                                              CRITICALITY reject
                                                                     EXTENSION HSDSCH-MACdFlows-to-Delete
                                                                                                               PRESENCE optional } |
     ID id-HSPDSCH-RL-ID
                                              CRITICALITY reject
                                                                     EXTENSION RL-ID
                                                                                                 PRESENCE optional}
                                                             EXTENSION RL-ID
     ID id-PDSCH-RL-ID
                                  CRITICALITY iqnore
                                                                                 PRESENCE optional }
                                                     CRITICALITY iqnore
     ID id-UL-Synchronisation-Parameters-LCR
                                                                             EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                             PRESENCE
    optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
     ID id-RL-Information-RL-ReconfPrepTDD
                                              CRITICALITY ignore
                                                                     EXTENSION RL-Information-RL-ReconfPrepTDD
                                                                                                                  PRESENCE
                                                                                                                             optional }|
     ID id-PrimaryCCPCH-RSCP-Delta
                                      CRITICALITY ignore
                                                             EXTENSION PrimaryCCPCH-RSCP-Delta
                                                                                                   PRESENCE
                                                                                                               optional }
     ID id-E-DCH-Information-Reconfig
                                              CRITICALITY reject
                                                                     EXTENSION E-DCH-Information-Reconfig
                                                                                                                  PRESENCE optional }
     ID id-E-DCH-Serving-RL-ID
                                                                                                                  PRESENCE optional
                                              CRITICALITY reject
                                                                     EXTENSION RL-ID
     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
    . . .
RL-Information-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF RL-InformationIE-RL-ReconfPrepTDD
RL-InformationIE-RL-ReconfPrepTDD ::= SEQUENCE {
    rL-ID
                                      RL-ID,
    rL-Specific-DCH-Info
                                      RL-Specific-DCH-Info
                                                                     OPTIONAL,
                                      ProtocolExtensionContainer { { RL-InformationIE-RL-ReconfPrepTDD-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
    . . .
RL-InformationIE-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
         -- RADIO LINK RECONFIGURATION READY FDD
RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
                                                             {{RadioLinkReconfigurationReadyFDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}
                                                                                                                            OPTIONAL,
    . . .
RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD
                                                                                                                                PRESENCE
optional
         } |
    { ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                              PRESENCE optional },
    . . .
```

RL-InformationResponseList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-ReconfReadyFDD-IEs } } RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD PRESENCE mandatory } } RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE { rL-TD RL-ID, max-UL-SIR UL-SIR OPTIONAL, min-UL-SIR UL-SIR OPTIONAL, maximumDLTxPower DL-Power OPTIONAL, DL-Power OPTIONAL, minimumDLTxPower not-Used-secondary-CCPCH-Info NULL OPTIONAL, dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD OPTIONAL, DCH-InformationResponseList-RL-ReconfReadyFDD dCHInformationResponse OPTIONAL, not-Used-dSCHsToBeAddedOrModified NULL OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator 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 } CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse ID id-EDCH-FDD-InformationResponse PRESENCE optional }| { ID id-EDCH-RLSet-Id CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional } { ID id-EDCH-FDD-DL-ControlChannelInformation CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation PRESENCE optional } { ID id-F-DPCH-SlotFormat CRITICALITY ignore EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }} DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= { { ID id-FDD-DL-CodeInformation CRITICALITY iqnore TYPE FDD-DL-CodeInformation PRESENCE mandatory } DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} } DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= { { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory } RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional }

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ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional } ID id-MAChs-ResetIndicator CRITICALITY ignore EXTENSION MAChs-ResetIndicator PRESENCE optional ID id-Fast-Reconfiguration-Permission CRITICALITY ignore EXTENSION Fast-Reconfiguration-Permission PRESENCE optional } ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response PRESENCE optional }, . . . - -RADIO LINK RECONFIGURATION READY TDD \*\*\*\*\* RadioLinkReconfigurationReadyTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationReadyTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponse-RL-ReconfReadyTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional --This RL-InformationResponse-RL-ReconfReadyTDD is for the first RL repetition in the list. --Repetitions 2 and on are defined in Multiple-RL-InformationResponse-RL-ReconfReadyTDD. { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE { rL-ID RL-ID. max-UL-SIR UL-STR OPTIONAL, min-UL-SIR UL-SIR OPTIONAL, OPTIONAL, maximumDLTxPower DL-Power minimumDLTxPower DL-Power OPTIONAL, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL. ul-CCTrCH-Information UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL, dl-CCTrCH-Information DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL, dCHInformationResponse DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL, dSCHsToBeAddedOrModified DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL, uSCHsToBeAddedOrModified USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-UL-TimingAdvanceCtrl-LCR CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR PRESENCE optional }| --For 1.28Mcps TDD only { ID id-secondary-LCR-CCPCH-Info-TDD CRITICALITY ignore EXTENSION Secondary-LCR-CCPCH-Info-TDD PRESENCE optional } --For 1.28Mcps TDD only ID id-secondary-CCPCH-Info-RL-ReconfReadyTDD768 PRESENCE optional }| CRITICALITY ignore EXTENSION Secondary-CCPCH-Info-TDD768 ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional }, -- Applicable to 1.28Mcps TDD only

```
UL-CCTrCH-InformationList-RL-ReconfReadyTDD
                                                    ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}
UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-ReconfReadyTDD
                                                                                                                                       PRESENCE
mandatorv }
}
UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD
UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID.
    ul-DPCH-AddInformation
                                    UL-DPCH-InformationAddList-RL-ReconfReadyTDD
                                                                                             OPTIONAL.
    --For 3.84Mcps TDD only
    ul-DPCH-ModifyInformation
                                    UL-DPCH-InformationModifyList-RL-ReconfReadyTDD
                                                                                                 OPTIONAL,
    ul-DPCH-DeleteInformation
                                    UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD
                                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD
                                                                     CRITICALITY ignore
                                                                                             EXTENSION UL-DPCH-LCR-InformationAddList-RL-
                    PRESENCE optional }
ReconfReadvTDD
    --For 1.28Mcps TDD only
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768
                                                                     CRITICALITY ignore
                                                                                             EXTENSION UL-DPCH-InformationAddList-RL-
ReconfReadyTDD768
                        PRESENCE optional },
    --For 7.68Mcps TDD only
    . . .
}
UL-DPCH-LCR-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
                                    TDD-DPCHOffset,
    tDD-DPCHOffset
    uL-TimeslotLCR-Info
                                    UL-TimeslotLCR-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
UL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}
UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD
                                                                                                                                          PRESENCE
optional }
UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
```

```
tDD-DPCHOffset
                                    TDD-DPCHOffset,
    rxTimingDeviationForTA
                                    RxTimingDeviationForTA
                                                                     OPTIONAL,
    uL-Timeslot-Information
                                    UL-Timeslot-Information.
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfReadvTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RxTimingDeviationForTAext
                                            CRITICALITY ignore
                                                                     EXTENSION RxTimingDeviationForTAext
                                                                                                            PRESENCE optional },
    . . .
UL-DPCH-InformationAddList-RL-ReconfReadyTDD768 ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
                                        RxTimingDeviationForTA768
    rxTimingDeviationForTA768
                                                                             OPTIONAL,
    uL-Timeslot-Information768
                                        UL-Timeslot-Information768,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}
UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod
                                                                 OPTIONAL.
    repetitionLength
                                    RepetitionLength
                                                                 OPTIONAL.
    tDD-DPCHOffset
                                    TDD-DPCHOffset
                                                                 OPTIONAL,
    uL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                 UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                                                                           OPTIONAL,
    --For 3.84Mcps TDD only
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                             EXTENSION UL-TimeslotLCR-InformationModifyList-RL-
ReconfReadvTDD
                    PRESENCE optional }|
    --For 1.28Mcps TDD only
    { ID id-UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 CRITICALITY ignore EXTENSION UL-Timeslot-InformationModifyList-RL-
                        PRESENCE optional },
ReconfReadyTDD768
    --For 7.68Mcps TDD only
. . .
}
```

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UL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTsLCR)) OF UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD

```
UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR.
    midambleShiftLCR
                                    MidambleShiftLCR
                                                                OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
    tDD-uL-Code-LCR-Information
                                        TDD-UL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD
                                                                                                      OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
TDD-UL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-UL-Code-LCR-InformationModifyItem-RL-
ReconfReadyTDD
TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCodeLCR
                                        TDD-ChannelisationCodeLCR
                                                                         OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
TDD-UL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-UL-DPCH-TimeSlotFormatModifvItem-LCR-RL-ReconfReadvTDD CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR
PRESENCE optional },
    . . .
ļ
UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
UL-Timeslot-InformationModifvItem-RL-ReconfReadvTDD ::= SEOUENCE
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                     OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
                                TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD
    uL-Code-Information
                                                                                             OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode
                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
```

```
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
ļ
UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                    MidambleShiftAndBurstType768
    midambleShiftAndBurstType768
                                                                             OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                             OPTIONAL,
    uL-Code-Information768
                                    TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD768
                                                                                                 OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD768::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-UL-Code-InformationModifyItem-RL-
ReconfReadyTDD768
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768
                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
J
TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}
UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD
UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                DPCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
}
UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
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DL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}} DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-ReconfReadyTDD PRESENCE mandatory } DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE { CCTrCH-ID CCTrCH-ID, dl-DPCH-AddInformation DL-DPCH-InformationAddList-RL-ReconfReadyTDD OPTIONAL, --For 3.84Mcps TDD only dl-DPCH-ModifyInformation DL-DPCH-InformationModifyList-RL-ReconfReadyTDD OPTIONAL, dl-DPCH-DeleteInformation DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD OPTIONAL, ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL, iE-Extensions . . . DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore DL-DPCH-LCR-InformationAddList-RL-EXTENSION ReconfReadyTDD PRESENCE optional } | --For 1.28Mcps TDD only { ID id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD CRITICALITY iqnore EXTENSION DL-Power PRESENCE optional }| -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power { ID id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }| -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768 CRITICALITY ignore EXTENSION DL-DPCH-InformationAddList-RL-ReconfReadyTDD768 PRESENCE optional } | --For 7.68Mcps TDD only { ID id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD CRITICALITY iqnore EXTENSION DL-DPCH-InformationDeleteList768-RL-ReconfReadvTDD PRESENCE optional }, . . . DL-DPCH-LCR-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE { repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength, tDD-DPCHOffset TDD-DPCHOffset, dL-TimeslotLCR-Info DL-TimeslotLCR-Information, iE-Extensions ProtocolExtensionContainer { {DL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL, . . . DL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocollE-Single-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}} DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {

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```

```
{ ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD
                                                             CRITICALITY ignore TYPE DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD
                                                                                                                                          PRESENCE
mandatory }
DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
                                    RepetitionLength,
    repetitionLength
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationAddList-RL-ReconfReadyTDD768 ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information768
                                    DL-Timeslot-Information768,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}
DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE
    repetitionPeriod
                                    RepetitionPeriod
                                                                OPTIONAL,
    repetitionLength
                                    RepetitionLength
                                                                OPTIONAL,
                                    TDD-DPCHOffset
    tDD-DPCHOffset
                                                                OPTIONAL,
    dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
                                                                                                                           OPTIONAL.
    --For 3.84Mcps TDD only
                                    ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD CRITICALITY ignore
                                                                                             EXTENSION DL-TimeslotLCR-InformationModifyList-RL-
ReconfReadyTDD
                    PRESENCE optional }|
    --For 1.28Mcps TDD only
    { ID id-DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768 CRITICALITY ignore EXTENSION DL-Timeslot-InformationModifyList-RL-
ReconfReadyTDD768
                        PRESENCE optional },
    --For 7.68Mcps TDD only
```

```
. . .
DL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD::= SEOUENCE ( SIZE (1..maxNrOfTsLCR)) OF DL-TimeslotLCR-InformationModifyItem-RL-
ReconfReadyTDD
DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    midambleShiftLCR
                                    MidambleShiftLCR
                                                                OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
                                    TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD
    tDD-dL-Code-LCR-Information
                                                                                                   OPTIONAL,
                                    ProtocolExtensionContainer { {DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-DL-Code-LCR-InformationModifyItem-RL-
ReconfReadyTDD
TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID.
    tDD-ChannelisationCodeLCR
                                    TDD-ChannelisationCodeLCR
                                                                    OPTIONAL,
                                    ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD
                                                                             CRITICALITY reject
                                                                                                      EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
    PRESENCE optional },
    . . .
}
DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION
                                                                                                                    DL-Power
                                                                                                                                 PRESENCE optional }|
     ID id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION
                                                                                                                                 PRESENCE optional },
                                                                                                                    DL-Power
    . . .
DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType
                                                                         OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
                                    TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD
    dL-Code-Information
                                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationModifvItem-RL-ReconfReadvTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD
```

```
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID.
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode
                                                                OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
3
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD CRITICALITY
                                                                                        reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR
PRESENCE optional },
    -- This IE shall not be used
۱
DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD768::= SEOUENCE (SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                    MidambleShiftAndBurstType768
                                                                             OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL,
    dL-Code-Information768
                                    TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD768
                                                                                                  OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD768::= SEOUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-InformationModifyItem-RL-
ReconfReadyTDD768
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768 ::= SEQUENCE {
    dPCH-TD768
                                    DPCH-ID768,
    tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768
                                                                    OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs } } OPTIONAL,
    . . .
TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}
DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
    PRESENCE mandatory }
}
DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD
DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID
                                DPCH-ID,
```

```
ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs768)) OF DL-DPCH-InformationDeleteItem768-RL-ReconfReadyTDD
DL-DPCH-InformationDeleteItem768-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID768
                                    DPCH-ID768,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL,
    . . .
}
DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DCH-InformationResponseList-RL-ReconfReadyTDD
                                                            ::= ProtocollE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyTDD} }
DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                       CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                                PRESENCE mandatory
                                                    ::= ProtocolIE-Single-Container { {DSCHTOBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }
DSCHToBeAddedOrModified-RL-ReconfReadyTDD
DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
                                                                                                                                     PRESENCE
mandatory }
DSCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation DSCH-FlowControlInformation,
    bindingID
                           BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
                           ProtocolExtensionContainer { {DSCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
                                                    ::= ProtocolIE-Single-Container { { USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD }
USCHToBeAddedOrModified-RL-ReconfReadyTDD
}USCHTOBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
                                                                                                                                     PRESENCE
mandatory }
l
```

USCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE uSCH-ID USCH-ID. transportFormatManagement TransportFormatManagement, BindingID OPTIONAL, bindingID transportLayerAddress TransportLayerAddress OPTIONAL, iE-Extensions ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs } } OPTIONAL, USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore PRESENCE optional } EXTENSION HSDSCH-RNTI PRESENCE optional ID id-DSCH-RNTI CRITICALITY ignore EXTENSION DSCH-RNTI CRITICALITY ignore PRESENCE optional ID id-HSDSCH-TDD-Information-Response EXTENSION HSDSCH-TDD-Information-Response CRITICALITY ignore ID id-MAChs-ResetIndicator EXTENSION MAChs-ResetIndicator PRESENCE optional } ID id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION Multiple-RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional} -- This is for RL repetitions 2 and on in RL list. ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional }| ID id-E-DCH-768-Information-Response CRITICALITY ignore EXTENSION E-DCH-768-Information-Response PRESENCE optional }| ID id-E-DCH-LCR-Information-Response CRITICALITY ignore EXTENSION E-DCH-LCR-Information-Response PRESENCE optional }, . . . } Multiple-RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-InformationResponse-RL-ReconfReadyTDD - --- RADIO LINK RECONFIGURATION COMMIT RadioLinkReconfigurationCommit ::= SEQUENCE { {{RadioLinkReconfigurationCommit-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}} OPTIONAL, . . . } RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= { 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 RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Fast-Reconfiguration-Mode CRITICALITY reject EXTENSION Fast-Reconfiguration-Mode PRESENCE optional }, --FDD only . . .

```
_ _
-- RADIO LINK RECONFIGURATION FAILURE
   RadioLinkReconfigurationFailure ::= SEQUENCE {
                                                            {{RadioLinkReconfigurationFailure-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
   protocolExtensions
                                                                                                                         OPTIONAL,
   . . .
3
RadioLinkReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CauseLevel-RL-ReconfFailure
                                         CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure PRESENCE mandatory }
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
    . . .
}
CauseLevel-RL-ReconfFailure ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-ReconfFailure,
   rLSpecificCause
                      RLSpecificCauseList-RL-ReconfFailure,
    . . .
GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
   cause
                                             Cause,
                                             ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs } }
   iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
GeneralCauseItem-RL-ReconfFailure-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-ReconfigurationFailure-RL-
ReconfFailure-IEs } }
RL-ReconfigurationFailure-RL-ReconfFailure-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailure-RL-ReconfFail CRITICALITY ignore TYPE RL-ReconfigurationFailure-RL-ReconfFail PRESENCE mandatory
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RL-ReconfigurationFailure-RL-ReconfFail ::= SEQUENCE { rL-ID RL-ID. cause Cause. iE-Extensions ProtocolExtensionContainer { {RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs } } OPTIONAL, . . . } RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Max-UE-DTX-Cycle CRITICALITY iqnore EXTENSION Max-UE-DTX-Cycle PRESENCE conditional }, -- This IE shall be present if the Cause IE is set to "Continuous Packet Connectivity UE DTX Cycle not Available". . . . } RadioLinkReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . \_ \_ -- RADIO LINK RECONFIGURATION CANCEL - -RadioLinkReconfigurationCancel ::= SEOUENCE { {{RadioLinkReconfigurationCancel-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationCancel-IEs RNSAP-PROTOCOL-IES ::= { . . . RadioLinkReconfigurationCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . \_ \_ -- RADIO LINK RECONFIGURATION REQUEST FDD RadioLinkReconfigurationRequestFDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkReconfigurationRequestFDD-IEs}}, protocolIEs ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}} protocolExtensions OPTIONAL, . . . } RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } | ID id-UL-DPCH-Information-RL-ReconfRqstFDD 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-ReconfRastFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRastFDD PRESENCE optional } ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }, . . . } UL-DPCH-Information-RL-ReconfRostFDD ::= SEOUENCE { t FCS TFCS OPTIONAL, iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } } OPTIONAL, . . . UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-UL-DPDCHIndicatorEDCH CRITICALITY reject EXTENSION UL-DPDCHIndicatorEDCH PRESENCE optional }, . . . } DL-DPCH-Information-RL-ReconfRgstFDD ::= SEQUENCE tFCS TFCS OPTIONAL, tFCI-SignallingMode TFCI-SignallingMode OPTIONAL, limitedPowerIncrease LimitedPowerIncrease OPTIONAL, ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . DL-DPCH-Information-RL-ReconfRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { DCH-DeleteList-RL-ReconfRqstFDD := SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE { dCH-TD DCH-ID, ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRgstFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . } DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-RL-ReconfigurationRequestFDD-RL-InformationList CRITICALITY ignore EXTENSION RL-ReconfigurationRequestFDD-RL-InformationList PRESENCE optional } ID id-DL-ReferencePowerInformation CRITICALITY ignore EXTENSION DL-ReferencePowerInformation PRESENCE optional } PRESENCE optional } ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-UnsynchronisedPRESENCE 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-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional } ID id-EDPCH-Information-RLReconfRequest-FDD CRITICALITY reject EXTENSION EDPCH-Information-RLReconfRequest-FDD PRESENCE optional } PRESENCE optional} EXTENSION EDCH-FDD-Information ID id-EDCH-FDD-Information CRITICALITY reject

```
ID id-EDCH-FDD-Information-To-Modify
                                                                                                                    PRESENCE optional } |
                                                  CRITICALITY reject
                                                                         EXTENSION EDCH-FDD-Information-To-Modify
     ID id-EDCH-MACdFlows-To-Add
                                                  CRITICALITY reject
                                                                        EXTENSION EDCH-MACdFlows-Information
                                                                                                                    PRESENCE optional }
     ID id-EDCH-MACdFlows-To-Delete
                                                  CRITICALITY reject
                                                                        EXTENSION EDCH-MACdFlows-To-Delete
                                                                                                                    PRESENCE optional}
     ID id-Serving-EDCHRL-Id
                                                  CRITICALITY reject
                                                                        EXTENSION EDCH-Serving-RL
                                                                                                                    PRESENCE optional}
     ID id-CPC-Information
                                                  CRITICALITY reject
                                                                        EXTENSION CPC-Information
                                                                                                                    PRESENCE optional },
    . . .
RL-ReconfigurationRequestFDD-RL-InformationList ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container {
    {RL-ReconfigurationReguestFDD-RL-Information-ListItem} }
RL-ReconfigurationRequestFDD-RL-Information-ListItem RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationReguestFDD-RL-Information-IEs CRITICALITY ignore TYPE RL-ReconfigurationReguestFDD-RL-Information-IEs PRESENCE
optional
RL-ReconfigurationReguestFDD-RL-Information-IEs ::= SEQUENCE {
    rL-ID
                          RL-ID,
    rL-Specific-DCH-Info
                          RL-Specific-DCH-Info OPTIONAL,
                          ProtocolExtensionContainer { { RL-ReconfigurationReguestFDD-RL-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-ReconfigurationRequestFDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-RL-Specific-EDCH-Information
                                        CRITICALITY reject
                                                                     EXTENSION RL-Specific-EDCH-Information
                                                                                                              PRESENCE optional }
    ID id-EDCH-RL-Indication
                                             CRITICALITY reject
                                                                     EXTENSION EDCH-RL-Indication
                                                                                                              PRESENCE optional },
    . . .
        -- RADIO LINK RECONFIGURATION REQUEST TDD
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkReconfigurationRequestTDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
   protocolExtensions
                                                                                                                             OPTIONAL,
    . . .
RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                      CRITICALITY reject TYPE AllowedQueuingTime
                                                                                            PRESENCE optional } |
     ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                             CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                                                                                                    PRESENCE
optional }
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                             CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                                                                                                     PRESENCE
optional
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                             CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                                                                                                    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 },
```

```
. . .
3
UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD
                                                      := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { { UL-CCTrCH-
InformationModifyList-RL-ReconfRgstTDD-IEs} }
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE
mandatory }
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
                               CCTrCH-ID.
    cCTrCH-ID
    tFCS
                               TFCS
                                           OPTIONAL.
    iE-Extensions
                                   ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL,
UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-UL-SIRTarget
                             CRITICALITY reject
                                                     EXTENSION
                                                                     UL-SIR
                                                                                 PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
}
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                      := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { { UL-CCTrCH-
InformationDeleteList-RL-ReconfRgstTDD-IEs} }
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD PRESENCE
mandatory }
}
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
                               CCTrCH-ID,
    cCTrCH-ID
   iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs } } OPTIONAL.
    . . .
UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                                       ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD-IEs} }
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE
mandatory }
}
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                               CCTrCH-ID,
    tFCS
                               TFCS
                                            OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
. . .
}
DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD
                                                       ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD-IEs } }
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-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-ReconfRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
3
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                          := SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteList-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRgstTDD ::= SEQUENCE {
    dCH-ID
                                DCH-ID,
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-ReconfigurationRequestTDD-RL-Information CRITICALITY ignore
                                                                                EXTENSION Multiple-RL-ReconfigurationRequestTDD-RL-Information
    PRESENCE
               optional}
     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-UnsynchronisedPRESENCE
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-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 }
                                                CRITICALITY reject
CRITICALITY reject
      ID id-E-DCH-Serving-RL-ID
                                                                                                                       PRESENCE optional }
                                                                        EXTENSION RL-ID
      ID id-E-DCH-768-Information-Reconfig
                                                                        EXTENSION E-DCH-768-Information-Reconfig
                                                                                                                       PRESENCE optional }|
                                                CRITICALITY reject
    { ID id-E-DCH-LCR-Information-Reconfig
                                                                        EXTENSION E-DCH-LCR-Information-Reconfig
                                                                                                                       PRESENCE optional },
    . . .
}
```

Multiple-RL-ReconfigurationRequestTDD-RL-Information ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF RL-ReconfigurationRequestTDD-RL-Information

```
RL-ReconfigurationReguestTDD-RL-Information ::= SEQUENCE {
   rL-ID
                          RL-ID.
   rL-Specific-DCH-Info
                          RL-Specific-DCH-Info OPTIONAL,
   iE-Extensions
                          ProtocolExtensionContainer { { RL-ReconfigurationRequestTDD-RL-Information-ExtIEs } } OPTIONAL,
    . . .
RL-ReconfigurationRequestTDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
           id-UL-Synchronisation-Parameters-LCR
    { ID
                                                         CRITICALITY ignore
                                                                                EXTENSION UL-Synchronisation-Parameters-LCR
                                                                                                                               PRESENCE
              }, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
   optional
    . . .
  _ _
  RADIO LINK RECONFIGURATION RESPONSE FDD
- -
  ******
RadioLinkReconfigurationResponseFDD ::= SEQUENCE {
                                                             {RadioLinkReconfigurationResponseFDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                              OPTIONAL,
    . . .
RadioLinkReconfigurationResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfRspFDD
                                                         CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRspFDD
                                                                                                                               PRESENCE
optional }
    { ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
                                             ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-
RL-InformationResponseList-RL-ReconfRspFDD
ReconfRspFDD-IEs } }
RL-InformationResponse-RL-ReconfRspFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfRspFDD
                                                         CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRspFDD
                                                                                                                            PRESENCE
mandatory }
}
RL-InformationResponseItem-RL-ReconfRspFDD ::= SEQUENCE {
   rL-ID
                                  RL-ID,
   max-UL-SIR
                                  UL-SIR
                                                 OPTIONAL,
   min-UL-SIR
                                  UL-SIR
                                                 OPTIONAL,
   maximumDLTxPower
                                  DL-Power
                                                 OPTIONAL,
   minimumDLTxPower
                                  DL-Power
                                                  OPTIONAL.
   not-Used-secondary-CCPCH-Info
                                         NULL
                                                     OPTIONAL,
    dCHsInformationResponseList
                                  DCH-InformationResponseList-RL-ReconfRspFDD OPTIONAL,
    dL-CodeInformationList-RL-ReconfResp
                                         DL-CodeInformationList-RL-ReconfRspFDD OPTIONAL,
                                  ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

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RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional } ID id-EDCH-FDD-InformationResponse CRITICALITY ignore EXTENSION EDCH-FDD-InformationResponse PRESENCE optional ID id-EDCH-RLSet-Id CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional ID id-EDCH-FDD-DL-ControlChannelInformation CRITICALITY ignore EXTENSION EDCH-FDD-DL-ControlChannelInformation PRESENCE optional } ID id-F-DPCH-SlotFormat CRITICALITY ignore EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspFDD} } DCH-InformationResponseList-RL-ReconfRspFDD DCH-InformationResponseListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory } DL-CodeInformationList-RL-ReconfRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfRspFDD }} DL-CodeInformationListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation PRESENCE optional } } RadioLinkReconfigurationResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-HSDSCH-RNTI CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optional ID id-MAChs-ResetIndicator CRITICALITY ignore EXTENSION MAChs-ResetIndicator PRESENCE optional } ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response CRITICALITY ignore EXTENSION Continuous-Packet-PRESENCE optional }, Connectivity-HS-SCCH-Less-Information-Response -- RADIO LINK RECONFIGURATION RESPONSE TDD RadioLinkReconfigurationResponseTDD ::= SEQUENCE { {{RadioLinkReconfigurationResponseTDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkReconfigurationResponseTDD-Extensions}} protocolExtensions OPTIONAL, . . . } RadioLinkReconfigurationResponseTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponse-RL-ReconfRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfRspTDD PRESENCE optional --This RL-InformationResponse-RL-ReconfRspTDD is for the first RL repetition in the list. --Repetitions 2 and on are defined in Multiple-RL-InformationResponse-RL-ReconfRspTDD. { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, RL-InformationResponse-RL-ReconfRspTDD ::= SEQUENCE { rL-ID RL-ID, UL-SIR max-UL-SIR OPTIONAL,

ReconfRspTDD

```
min-UL-SIR
                                                    OPTIONAL,
                                    UL-SIR
    maximumDLTxPower
                                    DL-Power
                                                    OPTIONAL,
    minimumDLTxPower
                                    DL-Power
                                                    OPTIONAL.
    dCHsInformationResponseList
                                    DCH-InformationResponseList-RL-ReconfRspTDD OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-DL-CCTrCH-InformationList-RL-ReconfRspTDD CRITICALITY iqnore EXTENSION DL-CCTrCH-InformationList-RL-ReconfRspTDD PRESENCE optional
}|
    { ID id-UL-TimingAdvanceCtrl-LCR
                                                        CRITICALITY ignore EXTENSION UL-TimingAdvanceCtrl-LCR
                                                                                                                    PRESENCE optional },
    --For 1.28Mcps TDD only
    . . .
DL-CCTrCH-InformationList-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfRspTDD
DL-CCTrCH-InformationItem-RL-ReconfRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    dl-DPCH-ModifyInformation-LCR
                                                DL-DPCH-InformationModifyList-LCR-RL-ReconfRspTDD
                                                                                                        OPTIONAL,
    --For 1.28Mcps TDD only
    cCTrCH-Maximum-DL-Power
                                                DL-Power
                                                                        OPTIONAL,
    --For 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
    cCTrCH-Minimum-DL-Power
                                                DL-Power
                                                                        OPTIONAL,
    --For 3.84Mcps TDD and 7.68Mcps TDD only, this is a DCH type CCTrCH power
                                                ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-ReconfRspTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
DL-CCTrCH-InformationItem-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationModifyList-LCR-RL-ReconfRspTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModifyListIEs-LCR-RL-ReconfRspTDD }}
DL-DPCH-InformationModifyListIEs-LCR-RL-ReconfRspTDD RNSAP-PROTOCOL-IES ::= {
    {ID id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD CRITICALITY ignore TYPE DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD
    PRESENCE optional },
    . . .
3
DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD ::= SEQUENCE {
   dL-Timeslot-LCR-InformationModifyList-RL-ReconfRqstTDD
                                                                DL-Timeslot-LCR-InformationModifyList-RL-ReconfRspTDD
                                                                                                                             OPTIONAL,
   iE-ExtensionsProtocolExtensionContainer { { DL-DPCH-InformationModifvItem-LCR-RL-ReconfRspTDD-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-Timeslot-LCR-InformationModifyList-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-Timeslot-LCR-InformationModifyItem-RL-
```

```
DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD
                                                      : := SEOUENCE
   timeSlotLCR
                                          TimeSlotLCR.
   maxPowerLCR
                                          DL-Power
                                                     OPTIONAL,
   minPowerLCR
                                          DL-Power
                                                      OPTIONAL.
                                          ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModifyItem-RL-ReconfRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
DCH-InformationResponseList-RL-ReconfRspTDD
                                                     ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspTDD} }
DCH-InformationResponseListIEs-RL-ReconfRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                    PRESENCE optional
}
RadioLinkReconfigurationResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-HSDSCH-RNTI
                                              CRITICALITY ignore
                                                                     EXTENSION HSDSCH-RNTI
                                                                                                                  PRESENCE optional }
     ID id-HSDSCH-TDD-Information-Response
                                                                                                                  PRESENCE optional
                                              CRITICALITY ignore
                                                                     EXTENSION HSDSCH-TDD-Information-Response
                                              CRITICALITY ignore
                                                                                                                  PRESENCE optional
     ID id-MAChs-ResetIndicator
                                                                     EXTENSION MAChs-ResetIndicator
     ID id-RL-ReconfigurationResponseTDD-RL-Information CRITICALITY ignore
                                                                                EXTENSION Multiple-RL-InformationResponse-RL-ReconfRspTDD
    PRESENCE
               optional}|
     ID id-E-DCH-Information-Response
                                              CRITICALITY ignore
                                                                                                                  PRESENCE optional }|
                                                                     EXTENSION E-DCH-Information-Response
     ID id-E-DCH-768-Information-Response
                                                  CRITICALITY ignore
                                                                         EXTENSION E-DCH-768-Information-Response
                                                                                                                     PRESENCE optional }|
    { ID id-E-DCH-LCR-Information-Response
                                                  CRITICALITY ignore
                                                                                                                     PRESENCE optional },
                                                                         EXTENSION E-DCH-LCR-Information-Response
    . . .
}
Multiple-RL-InformationResponse-RL-ReconfRspTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-InformationResponse-RL-ReconfRspTDD
--Includes the 2<sup>nd</sup> through the max number of radio link information repetitions.
- -
-- RADIO LINK FAILURE INDICATION
         RadioLinkFailureIndication ::= SEQUENCE {
                                  ProtocolIE-Container
                                                             {{RadioLinkFailureIndication-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
    . . .
RadioLinkFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Reporting-Object-RL-FailureInd CRITICALITY ignore TYPE Reporting-Object-RL-FailureInd
                                                                                                   PRESENCE mandatory
    . . .
}
Reporting-Object-RL-FailureInd ::= CHOICE {
                          RL-RL-FailureInd,
   rL
```

```
RL-Set-RL-FailureInd, --FDD only
    rL-Set
    . . . ,
    cCTrCH
                            CCTrCH-RL-FailureInd --TDD only
RL-RL-FailureInd
                            ::= SEQUENCE {
                                            RL-InformationList-RL-FailureInd,
    rL-InformationList-RL-FailureInd
                                            ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
RLItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-FailureInd
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-FailureInd-IEs}
}
RL-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-FailureInd
                                                CRITICALITY ignore TYPE RL-Information-RL-FailureInd
                                                                                                            PRESENCE mandatory
RL-Information-RL-FailureInd ::= SEQUENCE {
   rL-ID
                                RL-ID,
    cause
                                Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-RL-FailureInd
                                ::= SEQUENCE {
    rL-Set-InformationList-RL-FailureInd RL-Set-InformationList-RL-FailureInd.
   iE-Extensions
                                            ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    . . .
}
RL-SetItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-InformationList-RL-FailureInd
                                                ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-RL-
FailureInd-IEs} }
RL-Set-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-FailureInd
                                                    CRITICALITY ignore TYPE RL-Set-Information-RL-FailureInd PRESENCE mandatory }
}
RL-Set-Information-RL-FailureInd ::= SEQUENCE {
   rL-Set-ID
                                    RL-Set-ID,
    cause
                                    Cause,
                                    ProtocolExtensionContainer { {RL-Set-Information-RL-FailureInd-ExtIEs } } OPTIONAL,
    iE-Extensions
```

```
. . .
}
RL-Set-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
RadioLinkFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
CCTrCH-RL-FailureInd ::= SEQUENCE {
                                            RL-ID.
   rL-ID
   cCTrCH-InformationList-RL-FailureInd
                                            CCTrCH-InformationList-RL-FailureInd,
   iE-Extensions
                                         ProtocolExtensionContainer { { CCTrCHItem-RL-FailureInd-ExtIEs } }
                                                                                                            OPTIONAL,
   . . .
CCTrCHItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
CCTrCH-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
FailureInd}
CCTrCH-InformationItemIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
   { ID id-CCTrCH-InformationItem-RL-FailureInd
                                                       CRITICALITY
                                                                       ignore
                                                                                      TYPE CCTrCH-InformationItem-RL-FailureInd
   PRESENCE mandatory }
CCTrCH-InformationItem-RL-FailureInd ::= SEQUENCE {
   cCTrCH-ID
                                             CCTrCH-ID,
   cause
                                             Cause,
                                             ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-FailureInd-ExtIEs } }
   iE-Extensions
                                                                                                                         OPTIONAL,
   . . .
CCTrCH-InformationItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
  - -
-- RADIO LINK PREEMPTION REQUIRED INDICATION
RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkPreemptionRequiredIndication-IEs}},
                                ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}
   protocolExtensions
                                                                                                                             OPTIONAL,
   . . .
}
RadioLinkPreemptionRequiredIndication-IEs RNSAP-PROTOCOL-IES ::= {
```

**ETSI** 

PreemptRequiredInd PRESENCE mandatory

```
{ ID id-RL-InformationList-RL-PreemptRequiredInd
                                                       CRITICALITY ignore TYPE RL-InformationList-RL-PreemptRequiredInd PRESENCE optional },
RL-InformationList-RL-PreemptRequiredInd
                                                   ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationItemIEs-RL-
PreemptRequiredInd} }
RL-InformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-PreemptRequiredInd
                                                            CRITICALITY ignore TYPE RL-InformationItem-RL-PreemptRequiredInd
                                                                                                                                   PRESENCE
mandatorv }
RL-InformationItem-RL-PreemptRequiredInd::= SEQUENCE {
    rL-ID
                                RL-ID.
    iE-Extensions
                                ProtocolExtensionContainer { {RL-Information-RL-PreemptRequiredInd-ExtIEs } } OPTIONAL,
    . . .
RL-Information-RL-PreemptRequiredInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd CRITICALITY ignore EXTENSION EDCH-MacdFlowSpecificInformationList-RL-
PreemptRequiredInd PRESENCE optional },
    . . .
}
RadioLinkPreemptionRequiredIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd CRITICALITY ignore EXTENSION HSDSCHMacdFlowSpecificInformationList-RL-
PreemptRequiredInd PRESENCE optional },
    . . .
HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1.. maxNrOfMACdFlows)) OF ProtocolIE-Single-Container {
{HSDSCHMacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd} }
HSDSCHMacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
    { ID id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptReguiredInd CRITICALITY ignore TYPE HSDSCHMacdFlowSpecificInformationItem-RL-
PreemptRequiredInd PRESENCE mandatory }
}
HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
    hSDSCH-MACdFlow-ID
                                            HSDSCH-MACdFlow-ID,
                                ProtocolExtensionContainer { { HSDSCHMacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HSDSCHMacdFlowSpecificInformation-RL-PreemptRequiredInd-Extles RNSAP-PROTOCOL-EXTENSION ::= {
}
EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF ProtocolIE-Single-Container { { EDCH-
MacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd } }
EDCH-MacdFlowSpecificInformationItemIEs-RL-PreemptRequiredInd RNSAP-PROTOCOL-IES ::= {
    { ID id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd
                                                                           CRITICALITY ignore TYPE EDCH-MacdFlowSpecificInformationItem-RL-
```

```
}
EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
   eDCH-MACdFlow-ID
                             EDCH-MACdFlow-ID,
   iE-Extensions
                             ProtocolExtensionContainer { { EDCH-MacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs } } OPTIONAL,
   . . .
EDCH-MacdFlowSpecificInformation-RL-PreemptRequiredInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
     - -
-- RADIO LINK RESTORE INDICATION
RadioLinkRestoreIndication ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkRestoreIndication-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                                                   OPTIONAL,
   . . .
l
RadioLinkRestoreIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-Reporting-Object-RL-RestoreInd CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd
                                                                                                 PRESENCE mandatory },
   . . .
}
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,
   iE-Extensions
                                         ProtocolExtensionContainer { { RLItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
   . . .
}
RLItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
RL-InformationList-RL-RestoreInd
                                         ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-RL-RestoreInd-IEs}
ļ
RL-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Information-RL-RestoreInd
                                          CRITICALITY ignore TYPE RL-Information-RL-RestoreInd
                                                                                                   PRESENCE mandatory
```

RestoreInd} }

```
RL-Information-RL-RestoreInd ::= SEQUENCE {
   rL-ID
                                RL-ID.
   iE-Extensions
                                    ProtocolExtensionContainer { {RL-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
    . . .
3
RL-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-RL-RestoreInd ::= SEQUENCE {
    rL-Set-InformationList-RL-RestoreInd
                                            RL-Set-InformationList-RL-RestoreInd,
                                            ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
RL-SetItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-Set-InformationList-RL-RestoreInd
                                              :== SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocollE-Single-Container { {RL-Set-Information-RL-
RestoreInd-IEs } }
RL-Set-Information-RL-RestoreInd-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-RestoreInd
                                                    CRITICALITY ignore TYPE RL-Set-Information-RL-RestoreInd PRESENCE mandatory }
}
RL-Set-Information-RL-RestoreInd ::= SEQUENCE {
   rL-Set-ID
                                    RL-Set-ID,
                                    ProtocolExtensionContainer { {RL-Set-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
RL-Set-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkRestoreIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CCTrCH-RL-RestoreInd ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    cCTrCH-InformationList-RL-RestoreInd
                                                CCTrCH-InformationList-RL-RestoreInd,
                                            ProtocolExtensionContainer { { CCTrCHItem-RL-RestoreInd-ExtIEs } }
   iE-Extensions
                                                                                                                     OPTIONAL.
    . . .
 }
CCTrCHItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-
```

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CCTrCH-InformationItemIE-RL-RestoreInd RNSAP-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, iE-Extensions ProtocolExtensionContainer { { CCTrCH-InformationItem-RL-RestoreInd-ExtIEs } } OPTIONAL, CCTrCH-InformationItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { \*\*\*\*\*\* \_ \_ DOWNLINK POWER CONTROL REQUEST DL-PowerControlRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{DL-PowerControlRequest-IEs}}, ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}} protocolExtensions OPTIONAL. . . . 3 DL-PowerControlRequest-IEs RNSAP-PROTOCOL-IES ::= { ID id-PowerAdjustmentType CRITICALITY ignore TYPE PowerAdjustmentType PRESENCE mandatory } { ID id-DLReferencePower CRITICALITY ignore TYPE DL-Power PRESENCE conditional} -- This IE shall be present if Power Adjustment Type IE equals to 'Common' { ID id-InnerLoopDLPCStatus CRITICALITY ignore TYPE InnerLoopDLPCStatus PRESENCE optional } { ID id-DLReferencePowerList-DL-PC-Rqst CRITICALITY iqnore TYPE DL-ReferencePowerInformationList-DL-PC-Rqst PRESENCE conditional} -- This IE shall be present if Power Adjustment Type IE equals to 'Individual' CRITICALITY ignore TYPE MaxAdjustmentStep { ID id-MaxAdjustmentStep PRESENCE conditional } -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' { ID id-AdjustmentPeriod CRITICALITY ignore TYPE AdjustmentPeriod PRESENCE conditional } | -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' { ID id-AdjustmentRatio CRITICALITY ignore TYPE ScaledAdjustmentRatio PRESENCE conditional }, -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual' . . . DL-ReferencePowerInformationList-DL-PC-Rgst := SEOUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs } } DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= { { ID id-DL-ReferencePowerInformation-DL-PC-Rqst CRITICALITY ignore TYPE DL-ReferencePowerInformation-DL-PC-Rqst PRESENCE mandatory DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE { rL-ID RL-ID, dl-Reference-Power DL-Power,

ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rgst-ExtIEs} } OPTIONAL, iE-Extensions . . . DL-ReferencePowerInformation-DL-PC-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\* \_ \_ DOWNLINK POWER TIMESLOT CONTROL REQUEST TDD \*\*\*\*\* DL-PowerTimeslotControlRequest ::= SEQUENCE { {{DL-PowerTimeslotControlRequest-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{DL-PowerTimeslotControlRequest-Extensions}} OPTIONAL, . . . } DL-PowerTimeslotControlRequest-IEs RNSAP-PROTOCOL-IES ::= { { ID id-timeSlot-ISCP CRITICALITY ignore TYPE DL-TimeSlot-ISCP-Info PRESENCE optional}, --Mandatory for 3.84Mcps TDD and 7.68 Mcps TDD only . . . } DL-PowerTimeslotControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD CRITICALITY ignore EXTENSION DL-TimeSlot-ISCP-LCR-Information PRESENCE optional } --Mandatory for 1.28Mcps TDD only { ID id-PrimCCPCH-RSCP-DL-PC-RqstTDD CRITICALITY iqnore EXTENSION PrimaryCCPCH-RSCP PRESENCE optional } ID id-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta PRESENCE optional }. . . . - --- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD PhysicalChannelReconfigurationRequestFDD ::= SEQUENCE { {{PhysicalChannelReconfigurationRequestFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestFDD-Extensions}} OPTIONAL. . . . PhysicalChannelReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-PhyChReconfRqstFDD CRITICALITY reject TYPE RL-Information-PhyChReconfRqstFDD PRESENCE mandatory . . . }

RL-Information-PhyChReconfRgstFDD ::= SEQUENCE { rL-ID RL-ID. dl-CodeInformation DL-CodeInformationList-PhyChReconfRqstFDD, ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-Information-PhyChReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-F-DPCH-SlotFormat CRITICALITY ignore EXTENSION F-DPCH-SlotFormat PRESENCE optional }, . . . } DL-CodeInformationList-PhyChReconfRqstFDD ::= ProtocolIE-Single-Container { {DL-CodeInformationListIEs-PhyChReconfRqstFDD} } DL-CodeInformationListIEs-PhyChReconfRgstFDD RNSAP-PROTOCOL-IES ::= { { ID id-FDD-DL-CodeInformation CRITICALITY notify TYPE FDD-DL-CodeInformation PRESENCE mandatory } PhysicalChannelReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { - --- PHYSICAL CHANNEL RECONFIGURATION REQUEST TDD PhysicalChannelReconfigurationRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{PhysicalChannelReconfigurationRequestTDD-IEs}}, ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . PhysicalChannelReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Information-PhyChReconfRqstTDD CRITICALITY reject TYPE RL-Information-PhyChReconfRqstTDD PRESENCE mandatory }, . . . RL-Information-PhyChReconfRqstTDD ::= SEQUENCE { rL-ID RL-ID. ul-CCTrCH-Information UL-CCTrCH-InformationList-PhyChReconfRqstTDD OPTIONAL, dl-CCTrCH-Information DL-CCTrCH-InformationList-PhyChReconfRqstTDD OPTIONAL, ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-Information-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationList-PRESENCE optional } | PhyChReconfRqstTDD --For 3.84Mcps TDD only { ID id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD PRESENCE optional } |

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--For 1.28Mcps TDD only
    { ID id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD768
                                                                        CRITICALITY reject EXTENSION HSPDSCH-Timeslot-InformationList-
PhvChReconfRastTDD768
                            PRESENCE optional }|
    --For 7.68Mcps TDD only
    { ID id-UARFCNforNt
                                                                        CRITICALITY ignore EXTENSION UARFCN
                                                                                                                       PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
                                                    ::= ProtocolIE-Single-Container { {UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }
UL-CCTrCH-InformationList-PhyChReconfRqstTDD
UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD
                                                                CRITICALITY reject TYPE UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                                                                                            PRESENCE
mandatory }
}
UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-PhyChReconfRgstTDD
UL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE
    cCTrCH-ID
                                    CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-PhyChReconfRqstTDD,
                                    ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{UL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
UL-DPCH-InformationListIEs-PhyChReconfRgstTDD RNSAP-PROTOCOL-IES ::= {
     ID id-UL-DPCH-InformationItem-PhyChReconfRgstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-PhyChReconfRgstTDD
                                                                                                                                PRESENCE mandatory
}
UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod
                                                            OPTIONAL,
    repetitionLength
                                    RepetitionLength
                                                            OPTIONAL,
                                    TDD-DPCHOffset
    tDD-DPCHOffset
                                                            OPTIONAL,
    uL-Timeslot-InformationList-PhyChReconfRgstTDD
                                                            UL-Timeslot-InformationList-PhyChReconfRgstTDD
                                                                                                              OPTIONAL,
    --For 3.84Mcps TDD only
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD CRITICALITY reject
                                                                                         EXTENSION UL-TimeslotLCR-InformationList-
PhyChReconfRqstTDD
                        PRESENCE optional }
    --For 1.28Mcps TDD only
    { ID id-UL-Timeslot-InformationList-PhyChReconfRgstTDD768 CRITICALITY reject
                                                                                        EXTENSION UL-Timeslot-InformationList-
PhyChReconfRqstTDD768
                            PRESENCE optional },
    --For 7.68Mcps TDD only
    . . .
```

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UL-TimeslotLCR-InformationList-PhyChReconfRgstTDD::= SEOUENCE (SIZE (1..maxNrOfTsLCR)) OF UL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD
UL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE
    timeSlotLCR
                                    TimeSlotLCR.
    midambleShiftLCR
                                    MidambleShiftLCR
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-LCR-Information
                                    TDD-UL-Code-LCR-Information
                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
UL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PLCCH-Information-PhyChReconfRqstTDD
                                                        CRITICALITY reject
                                                                                 EXTENSION PLCCHinformation PRESENCE optional },
    . . .
3
UL-Timeslot-InformationList-PhyChReconfRgstTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-PhyChReconfRgstTDD
UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                 OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-Information
                                TDD-UL-Code-Information
                                                            OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    . . .
UL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationList-PhyChReconfRqstTDD768::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-PhyChReconfRqstTDD768
UL-Timeslot-InformationItem-PhyChReconfRqstTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot.
    midambleShiftAndBurstType768
                                    MidambleShiftAndBurstType768
                                                                        OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-Information768
                                    TDD-UL-Code-Information768
                                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs } } OPTIONAL,
    . . .
UL-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationList-PhyChReconfRqstTDD
                                                    ::= ProtocolIE-Single-Container { {DL-CCTrCH-InformationListIEs-PhyChReconfRgstTDD} }
DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                CRITICALITY reject TYPE DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                                                                                            PRESENCE
mandatory }
```

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DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRqstTDD
DL-CCTrCH-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID.
    dl-DPCH-Information
                                    DL-DPCH-InformationList-PhyChReconfRgstTDD,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRgstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
DL-DPCH-InformationListIEs-PhyChReconfRgstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-PhyChReconfRgstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-PhyChReconfRgstTDD
                                                                                                                                 PRESENCE mandatory
DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod
                                                            OPTIONAL,
    repetitionLength
                                    RepetitionLength
                                                            OPTIONAL,
                                    TDD-DPCHOffset
    tDD-DPCHOffset
                                                            OPTIONAL,
    dL-Timeslot-InformationList-PhvChReconfRgstTDD
                                                            DL-Timeslot-InformationList-PhyChReconfRgstTDD OPTIONAL,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD
                                                                    CRITICALITY reject
                                                                                             EXTENSION DL-TimeslotLCR-InformationList-
PhyChReconfRqstTDD
                        PRESENCE optional }
    --For 1.28Mcps TDD only
    { ID id-DL-Timeslot-InformationList-PhyChReconfRqstTDD768
                                                                    CRITICALITY reject
                                                                                             EXTENSION DL-Timeslot-InformationList-
                            PRESENCE optional },
PhyChReconfRqstTDD768
    --For 7.68Mcps TDD only
    . . .
DL-TimeslotLCR-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTsLCR)) OF DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD
DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE
    timeSlotLCR
                                    TimeSlotLCR.
    midambleShiftLCR
                                    MidambleShiftLCR
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    dL-Code-LCR-Information
                                    TDD-DL-Code-LCR-Information
                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs } } OPTIONAL,
    . . .
DL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Timeslot-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRqstTDD
```

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DL-Timeslot-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot.
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                 OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                         OPTIONAL.
    dL-Code-Information
                                TDD-DL-Code-Information
                                                             OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
DL-Timeslot-InformationList-PhyChReconfRqstTDD768::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRqstTDD768
DL-Timeslot-InformationItem-PhyChReconfRqstTDD768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                    MidambleShiftAndBurstType768
    midambleShiftAndBurstType768
                                                                         OPTIONAL,
                                    TFCI-Presence
    tFCI-Presence
                                                         OPTIONAL.
    dL-Code-Information768
                                    TDD-DL-Code-Information768
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRqstTDD768-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-Timeslot-InformationItem-PhyChReconfRqstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD
HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs } }
            OPTIONAL,
    . . .
HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF HSPDSCH-Timeslot-InformationItemLCR-
PhyChReconfRqstTDD
HSPDSCH-Timeslot-InformationItemLCR-PhyChReconfRqstTDD::= SEQUENCE {
    timeslotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
                                                 ProtocolExtensionContainer { { HSPDSCH-Timeslot-InformationItemLCR-PhyChReconfRgstTDD-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
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HSPDSCH-Timeslot-InformationItemLCR-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD768 ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD768 HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD768::= SEQUENCE { timeslot TimeSlot, midambleShiftAndBurstType768 MidambleShiftAndBurstType768, ProtocolExtensionContainer { { HSPDSCH-Timeslot-InformationItem-PhyChReconfRqstTDD768-ExtIEs } iE-Extensions OPTIONAL, . . . HSPDSCH-Timeslot-InformationItem-PhyChReconfRgstTDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . PhysicalChannelReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { - --- PHYSICAL CHANNEL RECONFIGURATION COMMAND PhysicalChannelReconfigurationCommand ::= SEQUENCE { protocolIEs ProtocolIE-Container {{PhysicalChannelReconfigurationCommand-IEs}}, ProtocolExtensionContainer {{PhysicalChannelReconfigurationCommand-Extensions}} protocolExtensions OPTIONAL, . . . } PhysicalChannelReconfigurationCommand-IEs RNSAP-PROTOCOL-IES ::= { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory } | CRITICALITY ignore TYPE CriticalityDiagnostics ID id-CriticalityDiagnostics PRESENCE optional }, . . . } PhysicalChannelReconfigurationCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . \*\*\*\*\*\*\*\*\*\*\* - -- --- PHYSICAL CHANNEL RECONFIGURATION FAILURE PhysicalChannelReconfigurationFailure ::= SEQUENCE {{PhysicalChannelReconfigurationFailure-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{PhysicalChannelReconfigurationFailure-Extensions}} protocolExtensions OPTIONAL,

```
. . .
}
PhysicalChannelReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-Cause
                                 CRITICALITY ignore TYPE Cause
                                                                              PRESENCE mandatory } |
    ID id-CriticalityDiagnostics
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional },
   . . .
}
PhysicalChannelReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     _ _
-- RADIO LINK CONGESTION INDICATION
RadioLinkCongestionIndication ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkCongestionIndication-IEs}},
                                ProtocolExtensionContainer {{RadioLinkCongestionIndication-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
   . . .
RadioLinkCongestionIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CongestionCause
                                            CRITICALITY ignore TYPE CongestionCause
                                                                                                      PRESENCE optional }|
    ID id-RL-InformationList-RL-CongestInd CRITICALITY ignore TYPE RL-InformationList-RL-CongestInd
                                                                                                      PRESENCE mandatory },
   . . .
}
RL-InformationList-RL-CongestInd
                                       := SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-InformationItemIEs-RL-
CongestInd} }
RL-InformationItemIEs-RL-CongestInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-CongestInd
                                               CRITICALITY ignore TYPE RL-InformationItem-RL-CongestInd PRESENCE mandatory }
}
RL-InformationItem-RL-CongestInd ::= SEQUENCE {
   rL-ID
                                     RL-ID,
   dCH-Rate-Information
                             DCH-Rate-Information-RL-CongestInd,
                             ProtocolExtensionContainer { {RL-Information-RL-CongestInd-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
}
DCH-Rate-Information-RL-CongestInd ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF ProtocolIE-Single-Container { {DCH-Rate-InformationItemIEs-RL-
CongestInd } }
DCH-Rate-InformationItemIEs-RL-CongestInd RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-Rate-InformationItem-RL-CongestInd
                                                    CRITICALITY ignore TYPE DCH-Rate-InformationItem-RL-CongestInd
                                                                                                                    PRESENCE mandatory
}
DCH-Rate-InformationItem-RL-CongestInd ::= SEQUENCE {
   dCH-ID
                             DCH-ID,
```

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allowed-Rate-Information
                              Allowed-Rate-Information OPTIONAL,
   iE-Extensions
                              ProtocolExtensionContainer { {DCH-Rate-InformationItem-RL-CongestInd-ExtIEs } } OPTIONAL,
    . . .
DCH-Rate-InformationItem-RL-CongestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Information-RL-CongestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd CRITICALITY ignore EXTENSION EDCH-MacdFlowSpecificInformationList-RL-CongestInd
PRESENCE optional },
    . . .
RadioLinkCongestionIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EDCH-MacdFlowSpecificInformationList-RL-CongestInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF ProtocolIE-Single-Container { { EDCH-
MacdFlowSpecificInformationItemIEs-RL-CongestInd} }
EDCH-MacdFlowSpecificInformationItemIEs-RL-CongestInd RNSAP-PROTOCOL-IES ::= {
    { ID id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd
                                                               CRITICALITY ignore TYPE EDCH-MacdFlowSpecificInformationItem-RL-CongestInd
    PRESENCE mandatory }
}
EDCH-MacdFlowSpecificInformationItem-RL-CongestInd ::= SEQUENCE {
    eDCH-MACdFlow-ID
                              EDCH-MACdFlow-ID,
                              ProtocolExtensionContainer { { EDCH-MacdFlowSpecificInformation-RL-CongestInd-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
EDCH-MacdFlowSpecificInformation-RL-CongestInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
  _ _
-- UPLINK SIGNALLING TRANSFER INDICATION FDD
  UplinkSignallingTransferIndicationFDD ::= SEQUENCE {
                                                            {{UplinkSignallingTransferIndicationFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{UplinkSignallingTransferIndicationFDD-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL,
    . . .
}
UplinkSignallingTransferIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-UC-ID
                                CRITICALITY ignore TYPE UC-ID
                                                                               PRESENCE mandatory } |
     ID id-SAI
                              CRITICALITY ignore TYPE SAI
                                                                           PRESENCE mandatory } |
     ID id-GA-Cell
                              CRITICALITY ignore TYPE GA-Cell
                                                                           PRESENCE optional } |
     ID id-C-RNTI
                                                                               PRESENCE mandatory }
                                  CRITICALITY ignore TYPE C-RNTI
```

ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI PRESENCE mandatory ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional PRESENCE mandatory ID id-PropagationDelay CRITICALITY ignore TYPE PropagationDelay CRITICALITY ignore TYPE STTD-SupportIndicator PRESENCE mandatory } ID id-STTD-SupportIndicator ID id-ClosedLoopMode1-SupportIndicator CRITICALITY ignore TYPE ClosedLoopModel-SupportIndicator PRESENCE mandatory } ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE mandatory } | ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } CRITICALITY ignore TYPE CN-CS-DomainIdentifier ID id-CN-CS-DomainIdentifier PRESENCE optional } ID id-URA-Information CRITICALITY ignore TYPE URA-Information PRESENCE optional }, UplinkSignallingTransferIndicationFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional } ID id-DPC-Mode-Change-SupportIndicator CRITICALITY ignore EXTENSION DPC-Mode-Change-SupportIndicator PRESENCE optional } ID id-CommonTransportChannelResourcesInitialisationNotRequired CRITICALITY ignore EXTENSION CommonTransportChannelResourcesInitialisationNotRequired PRESENCE optional } ID id-CellCapabilityContainer-FDD CRITICALITY ignore EXTENSION CellCapabilityContainer-FDD PRESENCE optional } ID id-SNA-Information CRITICALITY ignore EXTENSION SNA-Information PRESENCE optional } PRESENCE optional } ID id-CellPortionID CRITICALITY ignore EXTENSION CellPortionID PRESENCE optional } ID id-Active-MBMS-Bearer-ServiceFDD CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD ID id-Inter-Frequency-Cell-List CRITICALITY ignore EXTENSION Inter-Frequency-Cell-List PRESENCE optional } ID id-ExtendedPropagationDelay CRITICALITY ignore EXTENSION ExtendedPropagationDelay PRESENCE optional CRITICALITY ignore EXTENSION HSDSCH-RNTI PRESENCE optional ID id-HSDSCH-RNTI ID id-Multiple-PLMN-List CRITICALITY ignore EXTENSION Multiple-PLMN-List PRESENCE optional }, . . . UPLINK SIGNALLING TRANSFER INDICATION TDD UplinkSignallingTransferIndicationTDD ::= SEOUENCE { {{UplinkSignallingTransferIndicationTDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{UplinkSignallingTransferIndicationTDD-Extensions}} OPTIONAL, UplinkSignallingTransferIndicationTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-UC-ID PRESENCE mandatory } CRITICALITY ignore TYPE UC-ID ID id-SAI CRITICALITY ignore TYPE SAI PRESENCE mandatory } ID id-GA-Cell CRITICALITY ignore TYPE GA-Cell PRESENCE optional } ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE mandatory PRESENCE mandatory ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-RxTimingDeviationForTA CRITICALITY ignore TYPE RxTimingDeviationForTA PRESENCE mandatory } ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE mandatory } ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } ID id-URA-Information CRITICALITY ignore TYPE URA-Information PRESENCE optional }

UplinkSignallingTransferIndicationTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional } ID id-CommonTransportChannelResourcesInitialisationNotRequired CRITICALITY ignore EXTENSION CommonTransportChannelResourcesInitialisationNotRequired PRESENCE optional }| { ID id-CellCapabilityContainer-TDD CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD PRESENCE optional }| -- Applicable to 3.84Mcps TDD only { ID id-CellCapabilityContainer-TDD-LCR CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD-LCR PRESENCE optional } -- Applicable to 1.28Mcps TDD only ID id-SNA-Information CRITICALITY ignore EXTENSION SNA-Information PRESENCE optional }| ID id-Active-MBMS-Bearer-ServiceTDD CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListTDD PRESENCE optional } | CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD768 { ID id-CellCapabilityContainer-TDD768 PRESENCE optional } -- Applicable to 7.68Mcps TDD only ID id-RxTimingDeviationForTA768 CRITICALITY ignore EXTENSION RxTimingDeviationForTA768 PRESENCE optional } ID id-RxTimingDeviationForTAext CRITICALITY ignore EXTENSION RxTimingDeviationForTAext PRESENCE optional } { ID id-Multiple-PLMN-List CRITICALITY ignore EXTENSION Multiple-PLMN-List PRESENCE optional }, . . . -- DOWNLINK SIGNALLING TRANSFER REQUEST DownlinkSignallingTransferRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {DownlinkSignallingTransferRequest-IEs}}, ProtocolExtensionContainer {{DownlinkSignallingTransferReguest-Extensions}} protocolExtensions OPTIONAL . . . } DownlinkSignallingTransferRequest-IEs RNSAP-PROTOCOL-IES ::= { CRITICALITY ignore TYPE C-ID PRESENCE mandatory } | { ID id-C-ID -- May be a GERAN cell identifier ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE mandatory } PRESENCE mandatory } | ID id-L3-Information CRITICALITY ignore TYPE L3-Information ID id-D-RNTI-ReleaseIndication CRITICALITY ignore TYPE D-RNTI-ReleaseIndication PRESENCE mandatory }, . . . } DownlinkSignallingTransferRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-URA-ID PRESENCE optional } CRITICALITY ignore EXTENSION URA-ID CRITICALITY ignore EXTENSION MBMS-Bearer-Service-List PRESENCE optional } ID id-MBMS-Bearer-Service-List ID id-Old-URA-ID CRITICALITY ignore PRESENCE optional } EXTENSION URA-ID PRESENCE conditional } | ID id-SRNC-ID CRITICALITY ignore EXTENSION RNC-ID -- This IE shall be present if the URA-ID IE or Old URA-ID IE is present. ID id-Extended-SRNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional } ID id-Enhanced-PCH-Capability CRITICALITY ignore EXTENSION Enhanced-PCH-Capability PRESENCE optional }, -- FDD only . . .

```
_ _
-- RELOCATION COMMIT
- -
  *******
RelocationCommit ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{RelocationCommit-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{RelocationCommit-Extensions}}
                                                                                             OPTIONAL,
RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-D-RNTI
                             CRITICALITY ignore TYPE D-RNTI
                                                                     PRESENCE optional } |
   { ID id-RANAP-RelocationInformation CRITICALITY ignore TYPE RANAP-RelocationInformation PRESENCE optional },
   . . .
}
RelocationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
     - -
-- PAGING REOUEST
PagingReguest ::= SEQUENCE {
                             ProtocolIE-Container
                                                    {{PagingRequest-IEs}},
   protocolIEs
                             ProtocolExtensionContainer {{PagingRequest-Extensions}}
   protocolExtensions
                                                                                          OPTIONAL,
   . . .
}
PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-PagingArea-PagingRgst
                                    CRITICALITY ignore TYPE PagingArea-PagingRgst
                                                                                PRESENCE mandatory }
                             CRITICALITY ignore TYPE RNC-ID PRESENCE mandatory } | -- May be a BSC-Id.
    ID id-SRNC-ID
    ID id-S-RNTI
                             CRITICALITY ignore TYPE S-RNTI
                                                                     PRESENCE mandatory
    ID id-IMSI
                             CRITICALITY ignore TYPE IMSI
                                                                     PRESENCE mandatory }
    ID id-DRXCycleLengthCoefficient CRITICALITY ignore TYPE DRXCycleLengthCoefficient
                                                                                            PRESENCE mandatory
                                                                                                              }|
                                                                                            PRESENCE optional
   { ID id-CNOriginatedPage-PagingRqst
                                  CRITICALITY ignore TYPE CNOriginatedPage-PagingRqst
   . . .
PagingArea-PagingRgst ::= CHOICE {
   uRA
                      URA-PagingRgst, -- May be a GRA-ID.
   cell
                      Cell-PagingRgst, -- UTRAN only
   . . .
}
URA-PagingRqst ::= SEQUENCE {
   uRA-ID
                          URA-ID,
   iE-Extensions
                          ProtocolExtensionContainer { { URAItem-PagingRqst-ExtIEs } } OPTIONAL,
   . . .
```

```
}
URAItem-PagingRgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
Cell-PagingRqst ::= SEQUENCE {
   c-ID
                              C-ID,
                              ProtocolExtensionContainer { { CellItem-PagingRqst-ExtIEs} } OPTIONAL,
   iE-Extensions
CellItem-PagingRgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CNOriginatedPage-PagingRgst::= SEQUENCE {
   pagingCause
                              PagingCause,
    cNDomainType
                              CNDomainType,
   pagingRecordType
                              PagingRecordType,
   iE-Extensions
                              ProtocolExtensionContainer { { CNOriginatedPage-PagingRgst-ExtIEs } } OPTIONAL,
    . . .
CNOriginatedPage-PagingRgst-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
PagingRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Extended-SRNC-ID
                                     CRITICALITY reject
                                                            EXTENSION
                                                                       Extended-RNC-ID
                                                                                               PRESENCE optional } |
     ID id-Enhanced-PCH-Capability
                                     CRITICALITY ignore
                                                            EXTENSION
                                                                       Enhanced-PCH-Capability PRESENCE optional },
    -- FDD only
    . . .
    - -
  DEDICATED MEASUREMENT INITIATION REQUEST
_ _
          DedicatedMeasurementInitiationRequest ::= SEQUENCE {
                                 ProtocolIE-Container
                                                            {{DedicatedMeasurementInitiationRequest-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL,
    . . .
DedicatedMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
     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
                                                                                                               }|
```

```
CRITICALITY reject TYPE FNReportingIndicator
      ID id-CFNReportingIndicator
                                                                                                    PRESENCE mandatory }|
     ID id-CFN
                                            CRITICALITY reject TYPE CFN
                                                                                                    PRESENCE optional
                                                                                                                        },
    . . .
DedicatedMeasurementObjectType-DM-Rgst ::= CHOICE {
    rL
                            RL-DM-Rqst,
                            RL-Set-DM-Rqst,
    rLS
    allRL
                            All-RL-DM-Rgst,
    allRLS
                            All-RL-Set-DM-Rqst,
    . . .
RL-DM-Rqst ::= SEQUENCE {
    rL-InformationList-DM-Rgst
                                    RL-InformationList-DM-Rgst,
    iE-Extensions
                                    ProtocolExtensionContainer { { RLItem-DM-Rgst-ExtIEs } } OPTIONAL,
    . . .
RLItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rgst-IEs} }
RL-InformationList-DM-Rqst
RL-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rgst
                                            CRITICALITY reject TYPE RL-InformationItem-DM-Rgst
                                                                                                      PRESENCE mandatory }
RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dPCH-TD
                                DPCH-ID
                                            OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
    . . .
RL-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HSSICH-Info-DM-Rgst
                                                CRITICALITY reject
                                                                                 EXTENSION HSSICH-Info-DM-Rgst
                                                                                                                                     PRESENCE
optional}|
    -- TDD only
    { ID id-DPCH-ID768-DM-Rqst
                                                CRITICALITY reject
                                                                                 EXTENSION DPCH-ID768
                                                                                                                                  PRESENCE optional }
    { ID id-HSSICH-Info-DM-Rqst-Extension
                                                CRITICALITY reject
                                                                                 EXTENSION HSSICH-Info-DM-Rqst-Extension
                                                                                                                                  PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID
HSSICH-Info-DM-Rqst-Extension ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID-Extension
RL-Set-DM-Rqst ::= SEQUENCE {
    rL-Set-InformationList-DM-Rqst RL-Set-InformationList-DM-Rqst,
    iE-Extensions
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } } OPTIONAL,
    . . .
```

```
RL-SetItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RL-Set-InformationList-DM-Rqst
                                          ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-
Rqst-IEs} }
RL-Set-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rqst
                                             CRITICALITY reject TYPE RL-Set-InformationItem-DM-Rqst
                                                                                                      PRESENCE mandatory
RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
   rL-Set-ID
                                 RL-Set-ID.
   iE-Extensions
                                 ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rgst-ExtIEs} } OPTIONAL,
    . . .
RL-Set-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
All-RL-DM-Rgst ::= NULL
All-RL-Set-DM-Rqst ::= NULL
DedicatedMeasurementInitiationReguest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-PartialReportingIndicator
                                         CRITICALITY ignore
                                                                   EXTENSION
                                                                              PartialReportingIndicator
                                                                                                                          PRESENCE optional
          id-MeasurementRecoveryBehavior
     ΤD
                                                    CRITICALITY ignore
                                                                                  EXTENSION MeasurementRecoveryBehavior
                                                                                                                          PRESENCE optional
    ID id-AlternativeFormatReportingIndicator
                                                CRITICALITY ignore
                                                                              EXTENSION AlternativeFormatReportingIndicator
                                                                                                                                PRESENCE
optional },
    . . .
   _ _
  DEDICATED MEASUREMENT INITIATION RESPONSE
      *****
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
                                 ProtocolIE-Container
                                                           {{DedicatedMeasurementInitiationResponse-IEs}},
   protocolIEs
                                 ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
   protocolExtensions
                                                                                                                               OPTIONAL,
   . . .
}
DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                                                      PRESENCE mandatory } |
                                     CRITICALITY ignore TYPE MeasurementID
     ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp PRESENCE optional }
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional },
    . . .
```

```
}
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
    rLs
                           RL-DM-Rsp,
    rLS
                            RL-Set-DM-Rsp,
    allRL
                            RL-DM-Rsp,
    allRLS
                            RL-Set-DM-Rsp,
    . . .
RL-DM-Rsp ::= SEQUENCE {
    rL-InformationList-DM-Rsp
                                    RL-InformationList-DM-Rsp,
                                    ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
RLItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RL-Set-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp
                                   RL-Set-InformationList-DM-Rsp,
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rsp-IEs} }
RL-InformationList-DM-Rsp
RL-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp
                                            CRITICALITY ignore TYPE RL-InformationItem-DM-Rsp PRESENCE mandatory }
RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dPCH-ID
                                DPCH-ID
                                                    OPTIONAL,
    dedicatedMeasurementValue
                                        DedicatedMeasurementValue,
    cFN
                                CFN
                                                    OPTIONAL,
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM
                                CRITICALITY reject
                                                                EXTENSION HS-SICH-ID
                                                                                            PRESENCE optional }
    -- 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-HSSICHMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp PRESENCE 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-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-TDD768-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-DPCH-ID768-DM-Rsp CRITICALITY ignore EXTENSION DPCH-ID768 PRESENCE optional } | { ID id-HS-SICH-ID-Extension CRITICALITY ignore EXTENSION HS-SICH-ID-Extension PRESENCE optional }, -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31 RL-Set-InformationList-DM-Rsp ::= SEOUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rsp-IEs} } RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= { { ID id-RL-Set-InformationItem-DM-Rsp CRITICALITY iqnore TYPE RL-Set-InformationItem-DM-Rsp PRESENCE mandatory RL-Set-InformationItem-DM-Rsp ::= SEQUENCE { rL-Set-ID RL-Set-ID. dedicatedMeasurementValue DedicatedMeasurementValue, CFN CFN OPTIONAL, ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rspns-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-Set-InformationItem-DM-Rspns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DedicatedMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-MeasurementRecoverySupportIndicator CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional }, . . . } Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE { dPCH-ID DPCH-ID, dedicatedMeasurementValue DedicatedMeasurementValue, iE-Extensions ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs } } OPTIONAL, . . . }

Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
. . .
}
Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEOUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
LCR-TDD-DM-Rsp
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEQUENCE {
   dPCH-ID
                                     DPCH-ID,
   dedicatedMeasurementValue
                                     DedicatedMeasurementValue,
                                     ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs } }
   iE-Extensions
   OPTIONAL,
    . . .
}
Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs RNSAP-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 } }
   iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SICH-ID-Extension
                                                                                                  PRESENCE optional },
                                        CRITICALITY ignore
                                                                EXTENSION HS-SICH-ID-Extension
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
   . . .
}
Multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHs768PerRL-1)) OF Multiple-DedicatedMeasurementValueItem-
TDD768-DM-Rsp
Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp ::= SEQUENCE {
   dPCH-ID768
                                     DPCH-ID768,
   dedicatedMeasurementValue
                                     DedicatedMeasurementValue,
                                     ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
Multiple-DedicatedMeasurementValueItem-TDD768-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
  - -
-- DEDICATED MEASUREMENT INITIATION FAILURE
_ _
```

```
DedicatedMeasurementInitiationFailure ::= SEQUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                                {{DedicatedMeasurementInitiationFailure-IEs}},
    protocolExtensions
                                    ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
                                                                                                                                        OPTIONAL,
    . . .
}
DedicatedMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-MeasurementID
                                        CRITICALITY ignore TYPE MeasurementID
                                                                                             PRESENCE mandatory } |
                                    CRITICALITY ignore TYPE Cause
      ID id-Cause
                                                                                     PRESENCE mandatory } |
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                   PRESENCE optional },
    . . .
}
DedicatedMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DedicatedMeasurementObjectType-DM-Fail CRITICALITY ignore EXTENSION DedicatedMeasurementObjectType-DM-Fail PRESENCE optional },
    . . .
DedicatedMeasurementObjectType-DM-Fail ::= CHOICE {
    rT.
                           RL-DM-Fail,
    rLS
                            RL-Set-DM-Fail,
    allRL
                           RL-DM-Fail,
    allRLS
                           RL-Set-DM-Fail,
    . . .
RL-DM-Fail ::= SEQUENCE {
    rL-unsuccessful-InformationRespList-DM-Fail
                                                    RL-Unsuccessful-InformationRespList-DM-Fail,
    rL-successful-InformationRespList-DM-Fail
                                                    RL-Successful-InformationRespList-DM-Fail
                                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { RLItem-DM-Fail-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
RLItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
RL-Set-DM-Fail ::= SEQUENCE {
    rL-Set-unsuccessful-InformationRespList-DM-Fail RL-Set-Unsuccessful-InformationRespList-DM-Fail,
    rL-Set-successful-InformationRespList-DM-Fail RL-Set-Successful-InformationRespList-DM-Fail
                                                                                                         OPTIONAL,
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Fail-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-SetItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
                                                  ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Unsuccessful-
RL-Unsuccessful-InformationRespList-DM-Fail
InformationResp-DM-Fail-IEs } }
RL-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Unsuccessful-InformationItem-DM-Fail CRITICALITY ignore TYPE RL-Unsuccessful-InformationItem-DM-Fail
                                                                                                                              PRESENCE mandatory
```

. . .

```
}
RL-Unsuccessful-InformationItem-DM-Fail ::= SEOUENCE {
    rL-ID
                                RL-ID.
    individualcause
                                Cause OPTIONAL.
                                ProtocolExtensionContainer { {RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
RL-Unsuccessful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
RL-Successful-InformationRespList-DM-Fail
                                                   ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Successful-
InformationResp-DM-Fail-IEs } }
RL-Successful-InformationResp-DM-Fail-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Successful-InformationItem-DM-Fail
                                                        CRITICALITY ignore TYPE RL-Successful-InformationItem-DM-Fail PRESENCE mandatory
}
RL-Successful-InformationItem-DM-Fail ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dPCH-TD
                                DPCH-TD
                                                    OPTIONAL.
    dedicatedMeasurementValue DedicatedMeasurementValue,
    cFN
                                CFN
                                                    OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { {RL-Successful-InformationItem-DM-Fail-ExtIEs } } OPTIONAL,
    . . .
RL-Successful-InformationItem-DM-Fail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM
                                            CRITICALITY reject
                                                                            EXTENSION HS-SICH-ID
                                                                                                                 PRESENCE optional } |
    -- TDD only
    { ID id-HS-SICH-ID-Extension
                                            CRITICALITY ignore
                                                                            EXTENSION HS-SICH-ID-Extension
                                                                                                                 PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
RL-Set-Unsuccessful-InformationRespList-DM-Fail
                                                            ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-
Unsuccessful-InformationResp-DM-Fail-IEs }
RL-Set-Unsuccessful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Unsuccessful-InformationItem-DM-Fail
                                                            CRITICALITY ignore TYPE RL-Set-Unsuccessful-InformationItem-DM-Fail
                                                                                                                                      PRESENCE
mandatory }
}
RL-Set-Unsuccessful-InformationItem-DM-Fail ::= SEQUENCE {
   rL-Set-ID
                                    RL-Set-ID,
   individualcause
                                    Cause
                                                OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs } } OPTIONAL,
    . . .
}
RL-Set-Unsuccessful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

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```

}

```
RL-Set-Successful-InformationRespList-DM-Fail
                                                     ::= SEQUENCE (SIZE (1..maxNrOfRLSets-1)) OF ProtocolIE-Single-Container { {RL-Set-
Successful-InformationResp-DM-Fail-IEs } 
RL-Set-Successful-InformationResp-DM-Fail-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Set-Successful-InformationItem-DM-Fail
                                                        CRITICALITY ignore TYPE RL-Set-Successful-InformationItem-DM-Fail
                                                                                                                          PRESENCE
mandatorv }
}
RL-Set-Successful-InformationItem-DM-Fail ::= SEQUENCE {
   rL-Set-TD
                                 RL-Set-ID,
   dedicatedMeasurementValue
                                 DedicatedMeasurementValue,
   cFN
                                 CFN
                                                            OPTIONAL.
   iE-Extensions
                                 ProtocolExtensionContainer { {RL-Set-Successful-InformationItem-DM-Failns-ExtIEs } } OPTIONAL,
   . . .
RL-Set-Successful-InformationItem-DM-Failns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
      - -
-- DEDICATED MEASUREMENT REPORT
DedicatedMeasurementReport ::= SEQUENCE {
                                                           {{DedicatedMeasurementReport-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                                   OPTIONAL,
   . . .
}
DedicatedMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY ignore TYPE MeasurementID
                                                                                      PRESENCE mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory },
   . . .
}
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
   rLs
                          RL-DM-Rprt,
   rLS
                          RL-Set-DM-Rprt,
   allRL
                          RL-DM-Rprt,
   allRLS
                          RL-Set-DM-Rprt,
   . . .
RL-DM-Rprt ::= SEQUENCE {
   rL-InformationList-DM-Rprt
                                 RL-InformationList-DM-Rprt,
                                 ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
}
```

```
RLItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-DM-Rprt ::= SEQUENCE
    rL-Set-InformationList-DM-Rprt RL-Set-InformationList-DM-Rprt,
                                    ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } } OPTIONAL.
   iE-Extensions
    . . .
}
RL-SetItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RL-InformationList-DM-Rprt
                                           := SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-Information-DM-Rprt-IEs} }
RL-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt
                                            CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt
                                                                                                     PRESENCE mandatory }
}
RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dPCH-TD
                                DPCH-ID
                                                    OPTIONAL,
    dedicatedMeasurementValueInformation
                                            DedicatedMeasurementValueInformation,
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HSSICH-Info-DM-Rprt
                                                                                                 PRESENCE optional } |
                                    CRITICALITY ignore
                                                                    EXTENSION HS-SICH-ID
    -- TDD only
    { ID id-DPCH-ID768-DM-Rprt
                                        CRITICALITY ignore
                                                                        EXTENSION DPCH-ID768
                                                                                                                     PRESENCE optional } |
    { ID id-HS-SICH-ID-Extension
                                        CRITICALITY ignore
                                                                        EXTENSION HS-SICH-ID-Extension
                                                                                                                    PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
RL-Set-InformationList-DM-Rprt
                                             ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-
Rprt-IEs } }
RL-Set-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt
                                            CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt
                                                                                                              PRESENCE mandatory
RL-Set-InformationItem-DM-Rprt ::= SEOUENCE {
    rL-Set-ID
                                    RL-Set-ID,
    dedicatedMeasurementValueInformation
                                            DedicatedMeasurementValueInformation,
                                    ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
    iE-Extensions
RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

DedicatedMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore EXTENSION MeasurementRecoveryReportingIndicator PRESENCE optional }, . . . } \*\*\*\*\*\* -- DEDICATED MEASUREMENT TERMINATION REQUEST \*\*\*\*\*\* DedicatedMeasurementTerminationRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{DedicatedMeasurementTerminationReguest-IEs}}, protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementTerminationReguest-Extensions}} OPTIONAL . . . DedicatedMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= { { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory }, . . . } DedicatedMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- DEDICATED MEASUREMENT FAILURE INDICATION \*\*\*\*\*\*\*\*\*\* DedicatedMeasurementFailureIndication ::= SEOUENCE { protocolIEs ProtocolIE-Container {{DedicatedMeasurementFailureIndication-IEs}}, protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}} OPTIONAL, DedicatedMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory } { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }, . . . DedicatedMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= ID id-DedicatedMeasurementObjectType-DM-Fail-Ind CRITICALITY ignore EXTENSION DedicatedMeasurementObjectType-DM-Fail-Ind PRESENCE optional }, . . . } DedicatedMeasurementObjectType-DM-Fail-Ind ::= CHOICE { RL-DM-Fail-Ind, rL

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```
rLS
                            RL-Set-DM-Fail-Ind,
    allRL
                            RL-DM-Fail-Ind.
    allRLS
                            RL-Set-DM-Fail-Ind.
    . . .
RL-DM-Fail-Ind ::= SEQUENCE
                                                        RL-Unsuccessful-InformationRespList-DM-Fail-Ind,
    rL-unsuccessful-InformationRespList-DM-Fail-Ind
   iE-Extensions
                                                        ProtocolExtensionContainer { { RLItem-DM-Fail-Ind-ExtIEs } } OPTIONAL,
RLItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Fail-Ind ::= SEQUENCE
    rL-Set-unsuccessful-InformationRespList-DM-Fail-Ind
                                                            RL-Set-Unsuccessful-InformationRespList-DM-Fail-Ind,
                                                            ProtocolExtensionContainer { { RL-SetItem-DM-Fail-Ind-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
RL-SetItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Unsuccessful-InformationRespList-DM-Fail-Ind
                                                       ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-Single-Container { {RL-Unsuccessful-
InformationResp-DM-Fail-Ind-IEs } }
RL-Unsuccessful-InformationResp-DM-Fail-Ind-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Unsuccessful-InformationItem-DM-Fail-Ind CRITICALITY ignore TYPE RL-Unsuccessful-InformationItem-DM-Fail-Ind
                                                                                                                                      PRESENCE
mandatory }
}
RL-Unsuccessful-InformationItem-DM-Fail-Ind ::= SEQUENCE {
    rL-ID
                                RL-ID,
    individualcause
                                Cause
                                            OPTIONAL,
                                ProtocolExtensionContainer { {RL-Unsuccessful-InformationItem-DM-Fail-Ind-ExtIEs } OPTIONAL,
   iE-Extensions
    . . .
}
RL-Unsuccessful-InformationItem-DM-Fail-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Set-Unsuccessful-InformationRespList-DM-Fail-Ind
                                                                ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-
Unsuccessful-InformationResp-DM-Fail-Ind-IEs } 
RL-Set-Unsuccessful-InformationResp-DM-Fail-Ind-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind
                                                                CRITICALITY ignore TYPE RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind PRESENCE
mandatory }
}
RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind ::= SEQUENCE {
```

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rL-Set-ID RL-Set-ID, individualcause Cause OPTIONAL. iE-Extensions ProtocolExtensionContainer { {RL-Set-Unsuccessful-InformationItem-DM-Fail-Indns-ExtIEs } } OPTIONAL, . . . RL-Set-Unsuccessful-InformationItem-DM-Fail-Indns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST - -CommonTransportChannelResourcesReleaseRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesReleaseRequest-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelResourcesReleaseRequest-Extensions}} protocolExtensions OPTIONAL, . . . CommonTransportChannelResourcesReleaseRequest-IEs RNSAP-PROTOCOL-IES ::= { CRITICALITY ignore TYPE D-RNTI { ID id-D-RNTI PRESENCE mandatory }, . . . 3 CommonTransportChannelResourcesReleaseRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { - --- COMMON TRANSPORT CHANNEL RESOURCES REQUEST - -CommonTransportChannelResourcesRequest ::= SEQUENCE · protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesRequest-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelResourcesRequest-Extensions}} protocolExtensions OPTIONAL, . . . CommonTransportChannelResourcesRequest-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY reject TYPE D-RNTI PRESENCE mandatory ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE optional ID id-TransportBearerRequestIndicator CRITICALITY reject TYPE TransportBearerRequestIndicator PRESENCE mandatory } | ID id-TransportBearerID CRITICALITY reject TYPE TransportBearerID PRESENCE mandatory }, . . . } CommonTransportChannelResourcesRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Permanent-NAS-UE-Identity CRITICALITY ignore EXTENSION Permanent-NAS-UE-Identity PRESENCE optional }|

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{ ID id-BindingID CRITICALITY ignore BindingID PRESENCE optional } | EXTENSION -- 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-MBMS-Bearer-Service-List CRITICALITY notify EXTENSION MBMS-Bearer-Service-List PRESENCE optional } | PRESENCE optional } ID id-TnlOos CRITICALITY ignore EXTENSION TnlOos { ID id-Enhanced-FACH-Support-Indicator PRESENCE optional }, CRITICALITY ignore EXTENSION Enhanced-FACH-Support-Indicator -- FDD only ...} COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD - -CommonTransportChannelResourcesResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesResponseFDD-IEs}}, ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseFDD-Extensions}} protocolExtensions OPTIONAL, . . . CommonTransportChannelResourcesResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI PRESENCE mandatory ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE optional ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD PRESENCE mandatory } | ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLaverAddress PRESENCE optional } ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE optional } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE FACH-FlowControlInformation-CTCH-ResourceRspFDD, fACH-FlowControlInformation -- If the Enhanced FACH Information Response IE is included in the message, the FACH Flow Control Information IE shall be ignored. iE-Extensions ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL, FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . FACH-FlowControlInformation-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD }} FACH-FlowControlInformationIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= { { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation PRESENCE mandatory } } CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { ID id-C-ID CRITICALITY ignore EXTENSION C-ID PRESENCE mandatory }| { ID id-Active-MBMS-Bearer-ServiceFDD CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD PRESENCE optional }

```
{ ID id-Enhanced-FACH-Information-ResponseFDD
                                                   CRITICALITY ignore
                                                                         EXTENSION Enhanced-FACH-Information-ResponseFDD
                                                                                                                       PRESENCE
optional},
   . . .
  - -
  COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
  CommonTransportChannelResourcesResponseTDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                          {{CommonTransportChannelResourcesResponseTDD-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseTDD-Extensions}}
                                                                                                                     OPTIONAL.
   . . .
3
CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-S-RNTI
                                CRITICALITY ignore TYPE S-RNTI
                                                                             PRESENCE mandatory
     ID id-C-RNTI
                                CRITICALITY ignore TYPE C-RNTI
                                                                             PRESENCE optional
     ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD
   PRESENCE mandatory } |
     ID id-TransportLayerAddress
                                        CRITICALITY iqnore TYPE TransportLayerAddress
                                                                                         PRESENCE optional } |
     ID id-BindingID
                                 CRITICALITY ignore TYPE BindingID
                                                                                PRESENCE optional }
     ID id-CriticalityDiagnostics
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                         PRESENCE optional },
   . . .
3
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
                                FACH-FlowControlInformation-CTCH-ResourceRspTDD,
   fACH-FlowControlInformation
   iE-Extensions
                                ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs } } OPTIONAL,
   . . .
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
FACH-FlowControlInformation-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD }}
FACH-FlowControlInformationIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FACH-FlowControlInformation CRITICALITY ignore TYPE FACH-FlowControlInformation PRESENCE mandatory }
CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-C-ID
                                           CRITICALITY ignore
                                                                  EXTENSION C-ID
                                                                                                               PRESENCE mandatory }|
    { ID id-Active-MBMS-Bearer-ServiceTDD
                                           CRITICALITY ignore
                                                                  EXTENSION Active-MBMS-Bearer-Service-ListTDD
                                                                                                               PRESENCE optional }.
    . . .
    -- COMMON TRANSPORT CHANNEL RESOURCES FAILURE
_ _
```

```
CommonTransportChannelResourcesFailure ::= SEQUENCE
   protocolIEs
                             ProtocolIE-Container
                                                    {{CommonTransportChannelResourcesFailure-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{CommonTransportChannelResourcesFailure-Extensions}}
                                                                                                      OPTIONAL,
   . . .
CommonTransportChannelResourcesFailure-IEs RNSAP-PROTOCOL-IES ::= {
                        CRITICALITY ignore TYPE S-RNTI
    ID id-S-RNTI
                                                                     PRESENCE mandatory
    ID id-Cause
                             CRITICALITY ignore TYPE Cause
                                                                     PRESENCE mandatory }
   { ID id-CriticalityDiagnostics
                                    CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                PRESENCE optional },
   . . .
CommonTransportChannelResourcesFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    - -
  COMPRESSED MODE COMMAND
- -
- -
  CompressedModeCommand ::= SEQUENCE {
                                                    {{CompressedModeCommand-IEs}},
   protocolIEs
                             ProtocolIE-Container
   protocolExtensions
                             ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
                                                                                                 OPTIONAL,
   . . .
}
CompressedModeCommand-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-Active-Pattern-Sequence-Information
                                           CRITICALITY ignore TYPE Active-Pattern-Sequence-Information
                                                                                                PRESENCE mandatory },
   . . .
CompressedModeCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  _ _
-- ERROR INDICATION
  ErrorIndication ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{ErrorIndication-IEs}},
   protocolExtensions
                             ProtocolExtensionContainer {{ErrorIndication-Extensions}}
                                                                                             OPTIONAL.
   . . .
}
ErrorIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-Cause
                             CRITICALITY ignore TYPE Cause
                                                                     PRESENCE optional}
```

```
{ ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
   . . .
}
ErrorIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
                                                                                      PRESENCE optional } |
     ID id-S-RNTI
                                 CRITICALITY ignore EXTENSION S-RNTI
    { ID id-D-RNTI
                                 CRITICALITY ignore EXTENSION D-RNTI
                                                                                      PRESENCE optional },
   . . .
}
  - -
  COMMON MEASUREMENT INITIATION REQUEST
- -
CommonMeasurementInitiationReguest ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                 {{CommonMeasurementInitiationRequest-IEs}},
                          ProtocolExtensionContainer {{CommonMeasurementInitiationReguest-Extensions}}
   protocolExtensions
                                                                                                       OPTIONAL,
   . . .
CommonMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
          id-MeasurementID
   { ID
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          MeasurementID
                                                                                                                           PRESENCE
   mandatory }|
   { ID
           id-CommonMeasurementObjectType-CM-Rqst
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          CommonMeasurementObjectType-CM-Rqst
                                                                                                                                PRESENCE
   mandatory }|
           id-CommonMeasurementType
   { ID
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          CommonMeasurementType
                                                                                                                           PRESENCE
   mandatory }|
          id-MeasurementFilterCoefficient
    { ID
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          MeasurementFilterCoefficient
                                                                                                                           PRESENCE optional
    }|
   -- UTRAN only
          id-ReportCharacteristics
                                                                                   TYPE
                                                                                          ReportCharacteristics
                                                                                                                           PRESENCE
   { ID
                                                        CRITICALITY reject
   mandatory }
          id-SFNReportingIndicator
   { ID
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          FNReportingIndicator
                                                                                                                           PRESENCE
   mandatory
     ID
          id-SFN
                                                                                   TYPE
                                                        CRITICALITY reject
                                                                                          SFN
                                                                                                                           PRESENCE optional
    } |
   -- UTRAN only
     ID
          id-CommonMeasurementAccuracy
                                                        CRITICALITY reject
                                                                                   TYPE
                                                                                          CommonMeasurementAccuracy
                                                                                                                           PRESENCE optional
    },
   -- UTRAN only
   . . .
CommonMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-MeasurementRecoveryBehavior
                                                 CRITICALITY ignore
                                                                               EXTENSION MeasurementRecoveryBehavior
                                                                                                                        PRESENCE optional
  },
   -- UTRAN only
   . . .
```

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```
CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell
                                   Cell-CM-Rast,
    . . .
Cell-CM-Rgst ::= SEQUENCE {
    uC-ID
                                   UC-ID,
    -- May be a GERAN cell identifier
    timeSlot
                                   TimeSlot
                                                   OPTIONAL,
                                                              --3.84Mcps TDD and 7.68Mcps TDD only
                                                               --1.28Mcps TDD only
    timeSlotLCR
                                   TimeSlotLCR
                                                   OPTIONAL,
    neighbouringCellMeasurementInformation
                                                   NeighbouringCellMeasurementInfo
                                                                                      OPTIONAL,
    -- UTRAN only
                                   ProtocolExtensionContainer { { CellItem-CM-Rgst-ExtIEs } }
    iE-Extensions
                                                                                                OPTIONAL.
    . . .
NeighbouringCellMeasurementInfo ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
        CHOICE {
               neighbouringFDDCellMeasurementInformation
                                                               NeighbouringFDDCellMeasurementInformation,
               neighbouringTDDCellMeasurementInformation
                                                              NeighbouringTDDCellMeasurementInformation,
                . . . ,
               extension-neighbouringCellMeasurementInformation
                                                                   Extension-neighbouringCellMeasurementInformation,
               extension-neighbouringCellMeasurementInformation768 Extension-neighbouringCellMeasurementInformation768
Extension-neighbouringCellMeasurementInformation
                                                 :== ProtocollE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE RNSAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE
mandatory },
    . . .
Extension-neighbouringCellMeasurementInformation768 ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformation768IE }}
Extension-neighbouringCellMeasurementInformation768IE RNSAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformation768 CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformation768 PRESENCE
mandatory },
    . . .
}
CellItem-CM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt
                                       CRITICALITY ignore EXTENSION UARFCN
                                                                                          PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    { ID id-UPPCHPositionLCR
                                       CRITICALITY reject EXTENSION UPPCHPositionLCR
                                                                                          PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
     - -
-- COMMON MEASUREMENT INITIATION RESPONSE
_ _
```

```
CommonMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                        ProtocolIE-Container
                                               {{CommonMeasurementInitiationResponse-IEs}},
   protocolExtensions
                        ProtocolExtensionContainer {{CommonMeasurementInitiationResponse-Extensions}}
                                                                                                   OPTIONAL,
   . . .
CommonMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
   { ID
          id-MeasurementID
                                                  CRITICALITY ignore
                                                                            TYPE
                                                                                   MeasurementID
                                                                                                                      PRESENCE
   mandatory }|
    ID
          id-CommonMeasurementObjectType-CM-Rsp
                                                  CRITICALITY ignore
                                                                            TYPE
                                                                                   CommonMeasurementObjectType-CM-Rsp
                                                                                                                      PRESENCE optional
    } |
     ID
          id-SFN
                                                   CRITICALITY ignore
                                                                            TYPE
                                                                                   SFN
                                                                                                                      PRESENCE optional
    } |
   -- UTRAN only
     ID
          id-CriticalityDiagnostics
                                                  CRITICALITY ignore
                                                                            TYPE
                                                                                   CriticalityDiagnostics
                                                                                                                      PRESENCE optional
     ID
          id-CommonMeasurementAccuracy
                                                      CRITICALITY reject
                                                                                TYPE
                                                                                       CommonMeasurementAccuracy
                                                                                                                      PRESENCE optional
    ١,
   -- UTRAN only
   . . .
CommonMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoverySupportIndicator
                                                  CRITICALITY ignore
    { ID
                                                                        EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional
    },
   -- UTRAN only
   . . .
}
CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
   cell
                             Cell-CM-Rsp,
   . . .
Cell-CM-Rsp ::= SEQUENCE {
   commonMeasurementValue
                                           CommonMeasurementValue,
   iE-Extensions
                                           ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs } }
                                                                                                   OPTIONAL,
   . . .
CellItem-CM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
  COMMON MEASUREMENT INITIATION FAILURE
_ _
     CommonMeasurementInitiationFailure ::= SEQUENCE {
                                               {{CommonMeasurementInitiationFailure-IEs}},
   protocolIEs
                         ProtocolIE-Container
```

```
protocolExtensions
                          ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}
                                                                                                       OPTIONAL,
CommonMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
           id-MeasurementID
     ID
                                                                                                       PRESENCE mandatory
                                         CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                               MeasurementID
          id-Cause
                                                                                                       PRESENCE mandatory
     ΤD
                                         CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                               Cause
                                                                                                                           } |
     ID
           id-CriticalityDiagnostics
                                         CRITICALITY
                                                         ignore
                                                                        TYPE
                                                                               CriticalityDiagnostics
                                                                                                       PRESENCE optional },
    . . .
CommonMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
        COMMON MEASUREMENT REPORT
- -
_ _
CommonMeasurementReport ::= SEQUENCE {
                          ProtocolIE-Container
                                                 {{CommonMeasurementReport-IEs}},
   protocolIEs
                          ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}
   protocolExtensions
                                                                                            OPTIONAL,
    . . .
}
CommonMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
          id-MeasurementID
     ID
                                                     CRITICALITY ignore
                                                                               TYPE
                                                                                       MeasurementID
                                                                                                                      PRESENCE mandatory
                                                                                                                                         }|
           id-CommonMeasurementObjectType-CM-Rprt
     ID
                                                     CRITICALITY ignore
                                                                               TYPE
                                                                                       CommonMeasurementObjectType-CM-Rprt
                                                                                                                          PRESENCE
   mandatory }
   { ID
          id-SFN
                                                                               TYPE
                                                                                                                   PRESENCE optional },
                                                     CRITICALITY iqnore
                                                                                       SFN
    -- UTRAN only
    . . .
CommonMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
          id-MeasurementRecoveryReportingIndicator
                                                        CRITICALITY ignore
    { ID
                                                                               EXTENSION
                                                                                          MeasurementRecoveryReportingIndicator
                                                                                                                                PRESENCE
optional },
    -- UTRAN only
    . . .
CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
   cell
                                  Cell-CM-Rprt,
    . . .
 }
Cell-CM-Rprt ::= SEQUENCE {
   commonMeasurementValueInformation CommonMeasurementValueInformation,
                                  ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}
   iE-Extensions
                                                                                            OPTIONAL,
    . . .
```

```
CellItem-CM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
  COMMON MEASUREMENT TERMINATION REQUEST
- -
  **********
CommonMeasurementTerminationRequest ::= SEQUENCE {
   protocolIEs
                     ProtocolIE-Container
                                         {{CommonMeasurementTerminationReguest-IEs}},
  protocolExtensions
                     ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}}
                                                                                     OPTIONAL,
   . . .
}
CommonMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::=
   { ID
         id-MeasurementID
                               CRITICALITY
                                            ignore
                                                           TYPE
                                                                  MeasurementID
                                                                                 PRESENCE mandatory },
   . . .
CommonMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  _ _
- -
-- COMMON MEASUREMENT FAILURE INDICATION
- -
CommonMeasurementFailureIndication ::= SEQUENCE {
                                         {{CommonMeasurementFailureIndication-IEs}},
                     ProtocolIE-Container
   protocolIEs
                        ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}}
  protocolExtensions
                                                                                             OPTIONAL,
   . . .
}
CommonMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
    ID
         id-MeasurementID
                               CRITICALITY ignore
                                                     TYPE
                                                           MeasurementID
                                                                             PRESENCE mandatory
                               CRITICALITY ignore
   { ID
         id-Cause
                                                     TYPE
                                                           Cause
                                                                             PRESENCE mandatory
                                                                                             }.
   . . .
CommonMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
   - -
-- INFORMATION EXCHANGE INITIATION REQUEST
_ _
```

```
InformationExchangeInitiationRequest ::= SEQUENCE {
    protocolIEs
                            ProtocolIE-Container
                                                     {{InformationExchangeInitiationReguest-IEs}},
    protocolExtensions
                            ProtocolExtensionContainer {{InformationExchangeInitiationReguest-Extensions}}
                                                                                                                   OPTIONAL.
    . . .
}
InformationExchangeInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
      ID
            id-InformationExchangeID
                                                             CRITICALITY reject
                                                                                      TYPE
                                                                                              InformationExchangeID
                                                                                                                                  PRESENCE mandatory
            id-InformationExchangeObjectType-InfEx-Rqst
     ID
                                                             CRITICALITY reject
                                                                                      TYPE
                                                                                              InformationExchangeObjectType-InfEx-Rqst
                                                                                                                                           PRESENCE
    mandatory
               }|
     ID
            id-InformationType
                                                             CRITICALITY reject
                                                                                      TYPE
                                                                                              InformationType
                                                                                                                                  PRESENCE mandatory
            id-InformationReportCharacteristics
      ID
                                                             CRITICALITY reject
                                                                                      TYPE
                                                                                              InformationReportCharacteristics
                                                                                                                                  PRESENCE mandatory
    },
    . . .
InformationExchangeInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeObjectType-InfEx-Rqst ::= CHOICE {
    cell
                                                             Cell-InfEx-Rqst,
    ...,
    extension-InformationExchangeObjectType-InfEx-Rgst
                                                             Extension-InformationExchangeObjectType-InfEx-Rgst
}
Cell-InfEx-Rgst ::= SEQUENCE {
    c-ID
                                    C-ID, --May be a GERAN cell identifier
    iE-Extensions
                                    ProtocolExtensionContainer { { CellItem-InfEx-Rqst-ExtIEs } }
                                                                                                      OPTIONAL,
    . . .
CellItem-InfEx-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Extension-InformationExchangeObjectType-InfEx-Rqst ::= ProtocollE-Single-Container {{ Extension-InformationExchangeObjectType-InfEx-RqstIE }}
Extension-InformationExchangeObjectType-InfEx-RqstIE RNSAP-PROTOCOL-IES ::= {
      ID id-GSM-Cell-InfEx-Rqst CRITICALITY reject TYPE GSM-Cell-InfEx-Rqst
                                                                                  PRESENCE mandatory }|
      ID id-MBMS-Bearer-Service-List
                                                                         TYPE
                                                                                 MBMS-Bearer-Service-List
                                             CRITICALITY
                                                             reiect
                                                                                                                PRESENCE mandatory
}
GSM-Cell-InfEx-Rqst ::= SEQUENCE {
    cGI
                                     CGI,
                                     ProtocolExtensionContainer { { GSMCellItem-InfEx-Rqst-ExtIEs } }
    iE-Extensions
                                                                                                          OPTIONAL,
    . . .
```

```
GSMCellItem-InfEx-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
- -
-- INFORMATION EXCHANGE INITIATION RESPONSE
  InformationExchangeInitiationResponse ::= SEQUENCE
   protocolIEs
                         ProtocolIE-Container
                                                {{InformationExchangeInitiationResponse-IEs}},
   protocolExtensions
                         ProtocolExtensionContainer {{InformationExchangeInitiationResponse-Extensions}}
                                                                                                         OPTIONAL,
   . . .
3
InformationExchangeInitiationResponse-IEs RNSAP-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-CriticalityDiaqnostics
                                                        CRITICALITY ignore
                                                                                  TYPE
                                                                                         CriticalityDiagnostics
                                                                                                                         PRESENCE optional
    },
   . . .
InformationExchangeInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
   cell
                             Cell-InfEx-Rsp,
   . . . ,
   extension-InformationExchangeObjectType-InfEx-Rsp
                                                        Extension-InformationExchangeObjectType-InfEx-Rsp
Cell-InfEx-Rsp ::= SEQUENCE {
   requestedDataValue
                                 RequestedDataValue,
                                 ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs} }
   iE-Extensions
                                                                                              OPTIONAL,
   . . .
CellItem-InfEx-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Extension-InformationExchangeObjectType-InfEx-Rsp ::= ProtocolIE-Single-Container {{ Extension-InformationExchangeObjectType-InfEx-RspIE }}
Extension-InformationExchangeObjectType-InfEx-RspIE RNSAP-PROTOCOL-IES ::= {
    ID id-MBMS-Bearer-Service-List-InfEx-Rsp CRITICALITY
                                                           ignore
                                                                      TYPE
                                                                              MBMS-Bearer-Service-List-InfEx-Rsp PRESENCE mandatory
```

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MBMS-Bearer-Service-List-InfEx-Rsp ::= SEQUENCE (SIZE (1..maxNrOfMBMSServices)) OF MBMS-Bearer-ServiceItemIEs-InfEx-Rsp

```
MBMS-Bearer-ServiceItemIEs-InfEx-Rsp
                                  ::=SEQUENCE{
   tmqi
          TMGI,
                        RequestedDataValue,
   requestedDataValue
                               ProtocolExtensionContainer { { MBMS-Bearer-ServiceItem-InfEx-Rsp-ExtIEs } } OPTIONAL,
   iE-Extensions
   . . .
MBMS-Bearer-ServiceItem-InfEx-Rsp-ExtIEs
                                      RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  *******
_ _
  INFORMATION EXCHANGE INITIATION FAILURE
_ _
  InformationExchangeInitiationFailure ::= SEQUENCE {
                                             {{InformationExchangeInitiationFailure-IEs}},
   protocolIEs
                        ProtocolIE-Container
                        ProtocolExtensionContainer {{InformationExchangeInitiationFailure-Extensions}}
   protocolExtensions
                                                                                                  OPTIONAL,
   . . .
InformationExchangeInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID
          id-InformationExchangeID
                                             CRITICALITY
                                                           ignore
                                                                         TYPE
                                                                                InformationExchangeID
                                                                                                             PRESENCE mandatory
          id-Cause
                                                                                                             PRESENCE mandatory
     ID
                                             CRITICALITY
                                                           ignore
                                                                         TYPE
                                                                                Cause
                                                                                                                               } |
          id-CriticalityDiagnostics
                                                                                CriticalityDiagnostics
                                                                                                             PRESENCE optional },
    ID
                                             CRITICALITY
                                                           ignore
                                                                         TYPE
   . . .
InformationExchangeInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
    _ _
-- INFORMATION REPORT
  InformationReport ::= SEQUENCE {
                        ProtocolIE-Container
                                             {{InformationReport-IEs}},
   protocolIEs
                        ProtocolExtensionContainer {{InformationReport-Extensions}}
   protocolExtensions
                                                                                    OPTIONAL,
   . . .
}
InformationReport-IEs RNSAP-PROTOCOL-IES ::= {
         id-InformationExchangeID
   { ID
                                                    CRITICALITY ignore
                                                                             TYPE
                                                                                    InformationExchangeID
                                                                                                                          PRESENCE
   mandatory }|
   { ID
         id-InformationExchangeObjectType-InfEx-Rprt
                                                    CRITICALITY ignore
                                                                             TYPE
                                                                                    InformationExchangeObjectType-InfEx-Rprt
                                                                                                                         PRESENCE
   mandatory },
```

```
. . .
}
InformationReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
   cell
                              Cell-InfEx-Rprt,
   . . .
}
Cell-InfEx-Rprt ::= SEQUENCE {
   requestedDataValueInformation RequestedDataValueInformation,
   iE-Extensions
                              ProtocolExtensionContainer {{ CellItem-InfEx-Rprt-ExtIEs }}
                                                                                      OPTIONAL,
   . . .
}
CellItem-InfEx-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
     - -
-- INFORMATION EXCHANGE TERMINATION REQUEST
- -
InformationExchangeTerminationRequest ::= SEQUENCE {
   protocolIEs
                       ProtocolIE-Container
                                            {{InformationExchangeTerminationRequest-IEs}},
   protocolExtensions
                     ProtocolExtensionContainer {{InformationExchangeTerminationRequest-Extensions}}
                                                                                                OPTIONAL,
   . . .
}
InformationExchangeTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= {
         id-InformationExchangeID
   { ID
                                         CRITICALITY
                                                      ignore
                                                                       TYPE
                                                                              InformationExchangeID
                                                                                                        PRESENCE mandatory },
   . . .
}
InformationExchangeTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
    ************
- -
-- INFORMATION EXCHANGE FAILURE INDICATION
_ _
  - -
InformationExchangeFailureIndication ::= SEQUENCE {
                                           { { InformationExchangeFailureIndication-IEs } } ,
   protocolIEs
                       ProtocolIE-Container
```

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protocolExtensions ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}} OPTIONAL, . . . } InformationExchangeFailureIndication-IEs RNSAP-PROTOCOL-IES ::= { id-InformationExchangeID InformationExchangeID ID CRITICALITY ignore TYPE PRESENCE mandatory }| { ID id-Cause CRITICALITY ignore TYPE PRESENCE mandatory Cause }. . . . } InformationExchangeFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . ۱ \*\*\*\*\*\*\* \_ \_ -- RESET REQUEST - -\*\*\*\*\*\*\* ResetRequest ::= SEQUENCE { {{ResetRequest-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{ResetRequest-Extensions}} protocolExtensions OPTIONAL, . . . ResetRequest-IEs RNSAP-PROTOCOL-IES ::= { ID id-RNC-ID CRITICALITY reject TYPE RNC-ID PRESENCE mandatory} { ID id-ResetIndicator CRITICALITY reject TYPE ResetIndicator PRESENCE mandatory }, . . . } ResetRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { { ID id-Extended-RNC-ID PRESENCE optional }, CRITICALITY reject EXTENSION Extended-RNC-ID . . . } ResetIndicator ::= CHOICE { ContextList-Reset, context all-contexts NULL, ..., contextGroup ContextGroupList-Reset ContextList-Reset ::= SEOUENCE { contextInfoList-Reset ContextInfoList-Reset, iE-Extensions ProtocolExtensionContainer { {ContextItem-Reset-ExtIEs} } OPTIONAL, . . . } ContextItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . }

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ContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxResetContext)) OF ProtocolIE-Single-Container {{ ContextInfoItemIE-Reset }} ContextInfoItemIE-Reset RNSAP-PROTOCOL-IES ::= { {ID id-ContextInfoItem-Reset CRITICALITY reject TYPE ContextInfoItem-Reset PRESENCE mandatory } 3 ContextInfoItem-Reset ::= SEQUENCE { ContextType-Reset, contextType-Reset iE-Extensions ProtocolExtensionContainer { { ContextInfoItem-Reset-ExtIEs} } OPTIONAL, ContextInfoItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . ContextType-Reset ::= CHOICE { sRNTI S-RNTI, drnti D-RNTI, . . . ContextGroupList-Reset ::= SEQUENCE { contextGroupInfoList-Reset ContextGroupInfoList-Reset, ProtocolExtensionContainer { {ContextGroupItem-Reset-ExtIEs} } iE-Extensions OPTIONAL, . . . 3 ContextGroupItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } ContextGroupInfoList-Reset ::= SEQUENCE (SIZE (1.. maxResetContextGroup)) OF ProtocolIE-Single-Container {{ ContextGroupInfoItemIE-Reset }} ContextGroupInfoItemIE-Reset RNSAP-PROTOCOL-IES ::= { {ID id-ContextGroupInfoItem-Reset CRITICALITY reject TYPE ContextGroupInfoItem-Reset PRESENCE mandatory } } ContextGroupInfoItem-Reset ::= SEQUENCE { s-RNTI-Group S-RNTI-Group, ProtocolExtensionContainer { { ContextGroupInfoItem-Reset-ExtIEs } } iE-Extensions OPTIONAL, . . . ContextGroupInfoItem-Reset-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { - --- RESET RESPONSE 

```
ResetResponse ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{ResetResponse-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{ResetResponse-Extensions}}
                                                                                           OPTIONAL.
    . . .
}
ResetResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RNC-ID
                              CRITICALITY ignore TYPE RNC-ID
                                                                PRESENCE mandatory}
     ID id-CriticalityDiagnostics
                                     CRITICALITY
                                                                TYPE
                                                                        CriticalityDiagnostics
                                                                                                  PRESENCE optional },
                                                     iqnore
    . . .
ResetResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                                     CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                                       PRESENCE optional },
    . . .
3
     - -
-- RADIO LINK ACTIVATION COMMAND FDD
- -
  RadioLinkActivationCommandFDD ::= SEOUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{RadioLinkActivationCommandFDD-IEs}},
                          ProtocolExtensionContainer {{RadioLinkActivationCommandFDD-Extensions}}
   protocolExtensions
                                                                                                     OPTIONAL,
    . . .
}
RadioLinkActivationCommandFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DelayedActivationList-RL-ActivationCmdFDD
                                                         CRITICALITY ignore TYPE
                                                                                   DelayedActivationInformationList-RL-ActivationCmdFDD
              mandatory },
   PRESENCE
    . . .
RadioLinkActivationCommandFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DelayedActivationInformationList-RL-ActivationCmdFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container
     DelayedActivationInformation-RL-ActivationCmdFDD-IEs } }
DelayedActivationInformation-RL-ActivationCmdFDD-IEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
  - -
-- RADIO LINK ACTIVATION COMMAND TDD
          *****
RadioLinkActivationCommandTDD ::= SEQUENCE {
                                              {{RadioLinkActivationCommandTDD-IEs}},
   protocolIEs
                ProtocolIE-Container
                      ProtocolExtensionContainer {{RadioLinkActivationCommandTDD-Extensions}}
   protocolExtensions
                                                                                              OPTIONAL,
   . . .
}
RadioLinkActivationCommandTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DelayedActivationList-RL-ActivationCmdTDD
                                                     CRITICALITY ignore TYPE
                                                                              DelayedActivationInformationList-RL-ActivationCmdTDD
   PRESENCE
             mandatory },
   . . .
RadioLinkActivationCommandTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::=
   . . .
DelayedActivationInformationList-RL-ActivationCmdTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {
    { DelayedActivationInformation-RL-ActivationCmdTDD-IEs} }
DelayedActivationInformation-RL-ActivationCmdTDD-IEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  - -
- -
-- GERAN UPLINK SIGNALLING TRANSFER INDICATION
  GERANUplinkSignallingTransferIndication ::= SEQUENCE {
                               ProtocolIE-Container
                                                        {{GERANUplinkSignallingTransferIndication-IEs}},
   protocolIEs
                               ProtocolExtensionContainer {{GERANUplinkSignallingTransferIndication-Extensions}} OPTIONAL,
   protocolExtensions
```

```
. . .
}
GERANUplinkSignallingTransferIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UC-ID
                                      CRITICALITY ignore TYPE UC-ID
                                                                                           PRESENCE mandatory }
    -- UC-Id may be GERAN cell identifier.
     ID id-SAI
                                      CRITICALITY ignore TYPE SAI
                                                                                           PRESENCE mandatory
     ID id-S-RNTI
                                      CRITICALITY ignore TYPE S-RNTI
                                                                                           PRESENCE mandatory
     ID id-D-RNTI
                                      CRITICALITY ignore TYPE D-RNTI
                                                                                           PRESENCE optional
                                      CRITICALITY ignore TYPE L3-Information
                                                                                           PRESENCE mandatory
     ID id-L3-Information
     ID id-CN-PS-DomainIdentifier
                                      CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                           PRESENCE optional
     ID id-CN-CS-DomainIdentifier
                                      CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                           PRESENCE optional
    { ID id-URA-Information
                                      CRITICALITY ignore TYPE URA-Information
                                                                                           PRESENCE optional },
    -- URA information may be GRA information
    . . .
3
GERANUplinkSignallingTransferIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    - -
  RADIO LINK PARAMETER UPDATE INDICATION FDD
- -
        *****
RadioLinkParameterUpdateIndicationFDD ::= SEQUENCE {
                          ProtocolIE-Container
                                                 {{RadioLinkParameterUpdateIndicationFDD-IEs}},
   protocolIEs
                          ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationFDD-Extensions}}
   protocolExtensions
                                                                                                                 OPTIONAL,
    . . .
RadioLinkParameterUpdateIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID
          id-HSDSCH-FDD-Update-Information
                                                                 CRITICALITY ignore TYPE
                                                                                           HSDSCH-FDD-Update-Information
                                                                                                                               PRESENCE
    optional}
    { ID
          id-RL-ParameterUpdateIndicationFDD-RL-InformationList CRITICALITY ignore TYPE
                                                                                           RL-ParameterUpdateIndicationFDD-RL-InformationList
       PRESENCE optional },
    . . .
}
RL-ParameterUpdateIndicationFDD-RL-InformationList ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { RL-
ParameterUpdateIndicationFDD-RL-InformationList-IEs } }
RL-ParameterUpdateIndicationFDD-RL-InformationList-IEs RNSAP-PROTOCOL-IES ::= ·
    { ID id-RL-ParameterUpdateIndicationFDD-RL-Information-Item
                                                                CRITICALITY ignore TYPE RL-ParameterUpdateIndicationFDD-RL-Information-Item
    PRESENCE mandatory }
}
RL-ParameterUpdateIndicationFDD-RL-Information-Item::= SEQUENCE {
    rL-ID
                                      RL-ID,
    phase-Reference-Update-Indicator
                                      Phase-Reference-Update-Indicator OPTIONAL,
    iE-Extensions
                                      ProtocolExtensionContainer { { RL-ParameterUpdateIndicationFDD-RL-Information-ExtIEs } } OPTIONAL,
```

RL-ParameterUpdateIndicationFDD-RL-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { } RadioLinkParameterUpdateIndicationFDD-Extensions RNSAP-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 { {{RadioLinkParameterUpdateIndicationTDD-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkParameterUpdateIndicationTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-HSDSCH-TDD-Update-Information CRITICALITY TYPE HSDSCH-TDD-Update-Information PRESENCE optional }, ignore . . . 3 RadioLinkParameterUpdateIndicationTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= { \*\*\*\*\*\*\*\*\*\*\* - --- UE MEASUREMENT INITIATION REQUEST - -UEMeasurementInitiationRequest ::= SEQUENCE { protocolIEs ProtocolIE-Container {UEMeasurementInitiationRequest-IEs}}, ProtocolExtensionContainer {{UEMeasurementInitiationRequest-Extensions}} protocolExtensions OPTIONAL, . . . UEMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory ID id-UEMeasurementType CRITICALITY reject TYPE UEMeasurementType PRESENCE mandatory ID id-UEMeasurementTimeslotInfoHCR CRITICALITY reject TYPE UEMeasurementTimeslotInfoHCR PRESENCE optional ID id-UEMeasurementTimeslotInfoLCR CRITICALITY reject TYPE UEMeasurementTimeslotInfoLCR PRESENCE optional ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient PRESENCE optional ID id-UEMeasurementReportCharacteristics CRITICALITY reject TYPE UEMeasurementReportCharacteristics PRESENCE mandatory ID id-UEMeasurementParameterModAllow CRITICALITY reject TYPE UEMeasurementParameterModAllow PRESENCE mandatory

```
}
UEMeasurementInitiationReguest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-UEMeasurementTimeslotInfo768
                                                 CRITICALITY reject EXTENSION UEMeasurementTimeslotInfo768 PRESENCE optional},
   . . .
  ******
  UE MEASUREMENT INITIATION RESPONSE
  ******
UEMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                         {{UEMeasurementInitiationResponse-IEs}},
   protocolExtensions
                               ProtocolExtensionContainer {{UEMeasurementInitiationResponse-Extensions}}
                                                                                                                  OPTIONAL,
   . . .
}
UEMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID
ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient
                                                                                                 PRESENCE mandatory
                                                                                                 PRESENCE optional
     ID id-UEMeasurementReportCharacteristics CRITICALITY reject TYPE UEMeasurementReportCharacteristics PRESENCE optional
                                CRITICALITY ignore TYPE CriticalityDiagnostics
   { ID id-CriticalityDiagnostics
                                                                                                 PRESENCE optional }.
   . . .
}
UEMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
  -- UE MEASUREMENT INITIATION FAILURE
- -
UEMeasurementInitiationFailure ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                        {{UEMeasurementInitiationFailure-IEs}},
   protocolExtensions
                            ProtocolExtensionContainer {{UEMeasurementInitiationFailure-Extensions}}
                                                                                                                 OPTIONAL,
   . . .
}
UEMeasurementInitiationFailure-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                       CRITICALITY ignore TYPE MeasurementID
                                                                                         PRESENCE mandatory
     ID id-Cause
                                       CRITICALITY ignore TYPE Cause
                                                                                         PRESENCE mandatory
   { ID id-CriticalityDiagnostics
                                      CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                         PRESENCE optional },
   . . .
}
UEMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
```

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\_ \_ UE MEASUREMENT REPORT - -UEMeasurementReport ::= SEQUENCE { protocolIEs ProtocolIE-Container {{UEMeasurementReport-IEs}}, protocolExtensions ProtocolExtensionContainer {{UEMeasurementReport-Extensions}} OPTIONAL, . . . } UEMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory { ID id-UEMeasurementValueInformation CRITICALITY ignore TYPE UEMeasurementValueInformation PRESENCE mandatory . . . } UEMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- UE MEASUREMENT TERMINATION REQUEST UEMeasurementTerminationReguest ::= SEQUENCE { {{UEMeasurementTerminationRequest-IEs}}, protocolIEs ProtocolIE-Container ProtocolExtensionContainer {{UEMeasurementTerminationRequest-Extensions}} protocolExtensions OPTIONAL, . . . } UEMeasurementTerminationRequest-IEs RNSAP-PROTOCOL-IES ::= { { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory }, . . . } UEMeasurementTerminationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- UE MEASUREMENT FAILURE INDICATION - -UEMeasurementFailureIndication ::= SEQUENCE { {{UEMeasurementFailureIndication-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{UEMeasurementFailureIndication-Extensions}} OPTIONAL, . . . }

```
UEMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                     CRITICALITY ignore TYPE MeasurementID
                                                                                       PRESENCE mandatory
     ID id-Cause
                                     CRITICALITY ignore TYPE Cause
                                                                                       PRESENCE mandatory
   . . .
}
UEMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
  **********
- -
-- IUR INVOKE TRACE
- -
         IurInvokeTrace ::= SEQUENCE {
                                                                        {{IurInvokeTrace-IEs}},
   protocolIEs
                                             ProtocolIE-Container
                                             ProtocolExtensionContainer {{IurInvokeTrace-Extensions}}
   protocolExtensions
                                                                                                        OPTIONAL.
    . . .
IurInvokeTrace-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                             CRITICALITY ignore TYPE D-RNTI
                                                                                                        PRESENCE optional
     ID id-TraceReference
                                             CRITICALITY ignore TYPE TraceReference
                                                                                                        PRESENCE mandatory
     ID id-UEIdentity
                                             CRITICALITY ignore TYPE UEIdentity
                                                                                                        PRESENCE mandatory
     ID id-TraceRecordingSessionReference
                                             CRITICALITY ignore TYPE TraceRecordingSessionReference
                                                                                                        PRESENCE mandatory
     ID id-ListOfInterfacesToTrace
                                                                                                        PRESENCE optional
                                             CRITICALITY ignore TYPE ListOfInterfacesToTrace
                                                                                                        PRESENCE mandatory
    { ID id-TraceDepth
                                             CRITICALITY ignore TYPE TraceDepth
   . . .
ListOfInterfacesToTrace ::= SEQUENCE (SIZE (1..maxNrOfInterfaces)) OF ProtocolIE-Single-Container {{ InterfacesToBeTracedItemIE }}
InterfacesToBeTracedItemIE RNSAP-PROTOCOL-IES ::= {
    { ID id-InterfacesToTraceItem
                                             CRITICALITY ignore TYPE InterfacesToTraceItem
                                                                                                       PRESENCE mandatory }
}
InterfacesToTraceItem ::= SEQUENCE ·
                          ENUMERATED {iub, iur, ... },
   interface
                          ProtocolExtensionContainer { {InterfacesToTraceItem-ExtIEs} }
   iE-Extensions
                                                                                     OPTIONAL.
   . . .
}
InterfacesToTraceItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IurInvokeTrace-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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\_ \_ -- IUR DEACTIVATE TRACE - -\*\*\*\*\* IurDeactivateTrace ::= SEQUENCE { protocolIEs ProtocolIE-Container {{IurDeactivateTrace-IEs}}, protocolExtensions ProtocolExtensionContainer {{IurDeactivateTrace-Extensions}} OPTIONAL, . . . } IurDeactivateTrace-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional { ID id-TraceReference CRITICALITY ignore TYPE TraceReference PRESENCE mandatory . . . } IurDeactivateTrace-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- MBMS ATTACH COMMAND - -MBMSAttachCommand ::= SEQUENCE { ProtocolIE-Container {{MBMSAttachCommand-IEs}}, protocolIEs ProtocolExtensionContainer {{MBMSAttachCommand-Extensions}} protocolExtensions OPTIONAL, . . . } MBMSAttachCommand-IEs RNSAP-PROTOCOL-IES ::= { ID id-MBMS-Bearer-Service-List CRITICALITY ignore TYPE MBMS-Bearer-Service-List PRESENCE mandatory} { ID id-UE-State CRITICALITY ignore TYPE UE-State PRESENCE optional }, . . . } MBMSAttachCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= { . . . - --- MBMS DETACH COMMAND - -MBMSDetachCommand ::= SEQUENCE { protocolIEs ProtocolIE-Container {{MBMSDetachCommand-IEs}}, protocolExtensions ProtocolExtensionContainer {{MBMSDetachCommand-Extensions}} OPTIONAL, . . .

```
}
MBMSDetachCommand-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MBMS-Bearer-Service-List CRITICALITY
                                                ignore
                                                          TYPE MBMS-Bearer-Service-List PRESENCE mandatory}
   { ID id-UE-State
                                  CRITICALITY
                                                ignore
                                                          TYPE UE-State
                                                                                    PRESENCE optional },
   . . .
}
MBMSDetachCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
- -
-- DIRECT INFORMATION TRANSFER
_ _
*****
DirectInformationTransfer ::= SEQUENCE {
   protocolIEsProtocolIE-Container{{DirectInformationTransfer-IEs}},protocolExtensionsProtocolExtensionContainer{{DirectInformationTransfer-Extensions}}
                                                                                                      OPTIONAL,
   . . .
}
DirectInformationTransfer-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RNC-ID
                                         CRITICALITY ignore TYPE RNC-ID
                                                                                            PRESENCE mandatory }
   { ID id-ProvidedInformation
                                         CRITICALITY ignore TYPE ProvidedInformation
                                                                                            PRESENCE mandatory } ,
   . . .
}
DirectInformationTransfer-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-Extended-RNC-ID
                                         CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional },
   . . .
}
    - -
-- PRIVATE MESSAGE
- -
PrivateMessage ::= SEQUENCE {
                 PrivateIE-Container {{PrivateMessage-IEs}},
   privateIEs
   . . .
}
PrivateMessage-IEs RNSAP-PRIVATE-IES ::= {
   . . .
}
END
```

#### 9.3.4 Information Element Definitions \*\*\*\*\*\*\*\*\*\*\* \_ \_ - --- Information Element Definitions - -RNSAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCellSIB110rSIB12, maxNrOfFACHs, maxIBSEG, maxCellsMeas, maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR, maxNrOfDPCHs, maxNrOfDPCHs768, maxNrOfDPCHsLCR, maxNrOfEDCH-HARQ-PO-QUANTSTEPs, maxNrOfEDCHHAROProcesses2msEDCH, maxNrOfBits-MACe-PDU-non-scheduled, maxNrOfEDPCCH-PO-QUANTSTEPs, maxNrOfRefETFCI-PO-OUANTSTEPs, maxNrOfRefETFCIs, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfTsLCR, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfRLs, maxNrOfTFCs, maxNrOfTFs, maxCTFC,

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maxRNCinURA-1, maxNrOfSCCPCHs. maxNrOfSCCPCHs768. maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, maxNrOfActiveMBMSServices, maxNrOfCells, maxNrOfSNAs, maxNrOfHARQProc, maxNrOfHSSCCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfMACdPDUSize, maxNrOfEDCHMACdFlows, maxNrOfEDCHMACdFlows-1, maxNrOfMBMSServices, maxNrOfPDUIndexes, maxNrOfPDUIndexes-1, maxNrOfPrioQueues, maxNrOfPrioQueues-1, maxNrOfSatAlmanac-maxNoSat, maxNrOfGERANSI, maxNrofSiqSeqERGHICH-1, maxNrOfUEs, maxNrOfAddFreq. maxNrOfCellsPerFreq, maxNoOfLogicalChannels, maxNrOfRefBetas, maxNrOfEAGCHCodes, maxNrOfHS-DSCHTBSs, maxNrOfHS-DSCHTBSs-HS-SCCHless, maxHS-PDSCHCodeNrComp-1, maxNrOfEHICHCodes, maxGANSSSat, maxNoGANSS, maxSqnType, maxNrOfBroadcastPLMNs, maxHSDPAFrequency, maxHSDPAFrequency-1, maxFrequencyinCell, maxFrequencyinCell-1, maxGANSSSatAlmanac, maxGANSSClockMod, maxNrOfEDCHRLs,

id-Allowed-Rate-Information, id-AntennaColocationIndicator, id-BindingID, id-Cell-Capacity-Class-Value, id-CellCapabilityContainer-FDD, 649

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id-CellCapabilityContainer-TDD, id-CellCapabilityContainer-TDD-LCR, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response, id-CoverageIndicator, id-DPC-Mode-Change-SupportIndicator, id-E-DCH-Minimum-Set-E-TFCIValiditvIndicator, id-E-RGCH-E-HICH-ChannelisationCodeValiditvIndicator, id-Extended-Round-Trip-Time-Value, id-ExtendedPropagationDelay, id-Extended-SRNC-ID, id-Extended-RNC-ID, id-GERAN-Cell-Capability, id-GERAN-Classmark. id-Guaranteed-Rate-Information, id-HARO-Preamble-Mode-Activation-Indicator, id-HCS-Prio, id-Inter-Frequency-Cell-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-NRT-Load-Information-Value, id-NRT-Load-Information-Value-IncrDecrThres, id-OnModification. id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-RT-Load-Value, id-RT-Load-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-SNA-Information, id-TrafficClass. id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels. maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TransportLayerAddress, id-TypeOfError, id-Angle-Of-Arrival-Value-LCR, id-IPDL-TDD-ParametersLCR, id-DSCH-InitialWindowSize, id-Maximum-DL-Power-TimeslotLCR-InformationItem, id-MBMS-Bearer-Service-Full-Address, id-Minimum-DL-Power-TimeslotLCR-InformationItem, id-HS-SICH-Reception-Quality, id-HS-SICH-Reception-Quality-Measurement-Value,

id-HS-PDSCH-Code-Change-Grant, id-HS-PDSCH-Code-Change-Indicator, id-ExtendedGSMCellIndividualOffset. id-Unidirectional-DCH-Indicator, id-RTLoadValue. id-NRTLoadInformationValue. id-Satellite-Almanac-Information-ExtItem, id-TnlOos, id-UpPTSInterferenceValue, id-NACC-Related-Data, id-HARQ-Preamble-Mode, id-User-Plane-Congestion-Fields-Inclusion, id-FrequencyBandIndicator, id-PLCCH-Information-UL-TimeslotLCR-Info, id-CellCapabilityContainer-TDD768, id-hSSCCH-TDD-Specific-InfoList-Response768, id-hSPDSCH-TDD-Specific-InfoList-Response768, id-Rx-Timing-Deviation-Value-768, id-UEMeasurementValueTransmittedPowerList768, id-UEMeasurementValueTimeslotISCPList768, id-E-DCH-PowerOffset-for-SchedulingInfo, id-Rx-Timing-Deviation-Value-ext, id-TrCH-SrcStatisticsDescr, id-eDCH-MACdFlow-Retransmission-Timer-LCR, id-MIMO-ActivationIndicator, id-MIMO-InformationResponse, id-MIMO-Mode-Indicator, id-MIMO-N-M-Ratio, id-SixteenOAM-UL-Operation-Indicator, id-E-TFCI-Boost-Information, id-E-DPDCH-PowerInterpolation, id-HSDSCH-MACdPDUSizeFormat, id-MaximumMACdPDU-SizeExtended, id-GANSS-Common-Data, id-GANSS-Information, id-GANSS-Generic-Data, id-TUTRANGANSSMeasurementThresholdInformation, id-TUTRANGANSSMeasurementValueInformation, id-HARO-MemoryPartitioningInfoExtForMIMO, id-Ext-Reference-E-TFCI-PO, id-Ext-Max-Bits-MACe-PDU-non-scheduled, id-Multiple-PLMN-List, id-TransportBearerNotSetupIndicator, id-TransportBearerNotRequestedIndicator, id-UARFCNforNt, id-LCRTDD-uplink-Physical-Channel-Capability, id-number-Of-Supported-Carriers, id-HSSICH-SIRTarget, id-HSSICH-TPC-StepSize, id-tSN-Length, id-HS-SICH-ID-Extension, id-multipleFreg-HSPDSCH-InformationList-ResponseTDDLCR, id-multicarrier-number, id-UpPCH-InformationList-LCRTDD,

id-UpPCH-InformationItem-LCRTDD, id-Max-UE-DTX-Cycle, id-Default-Serving-Grant-in-DTX-Cycle2, id-SixtyfourQAM-UsageAllowedIndicator, id-SixtyfourQAM-DL-UsageIndicator, id-UE-Capabilities-Info, id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory, id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator, id-E-PUCH-PowerControlGAP, id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD, id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD, id-HSDSCH-TBSizeTableIndicator, id-E-DCH-DL-Control-Channel-Change-Information, id-E-DCH-DL-Control-Channel-Grant-Information, id-BANSS-Corrections-Reg

FROM RNSAP-Constants

Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM RNSAP-CommonDataTypes ProtocolIE-Single-Container{}, ProtocolExtensionContainer{}, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-EXTENSION FROM RNSAP-Containers; -- A AccessPointName ::= OCTET STRING (SIZE (1..255)) AckNack-RepetitionFactor ::= INTEGER (1..4,...) -- Step: 1 Ack-Power-Offset ::= INTEGER (0..8,...) -- According to mapping in ref. [21] subclause 4.2.1 Active-MBMS-Bearer-Service-ListFDD ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemFDD Active-MBMS-Bearer-Service-ListFDD-PFL ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemFDD-PFL Active-MBMS-Bearer-Service-ListTDD ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemTDD Active-MBMS-Bearer-Service-ListTDD-PFL ::= SEQUENCE (SIZE (1..maxNrOfActiveMBMSServices)) OF MBMS-Bearer-ServiceItemTDD-PFL Active-Pattern-Sequence-Information ::= SEQUENCE { cMConfigurationChangeCFN CFN,

```
transmission-Gap-Pattern-Sequence-Status
                                                 Transmission-Gap-Pattern-Sequence-Status-List
                                                                                                    OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs } } OPTIONAL,
    . . .
Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
AdditionalPreferredFrequency ::= SEQUENCE (SIZE (1..maxNrOfAddFreq)) OF AdditionalPreferredFrequencyItem
AdditionalPreferredFrequencyItem ::= SEQUENCE {
    dL-UARFCN
                                     UARFCN,
    correspondingCells
                                     CorrespondingCells,
    iE-Extensions
                                    ProtocolExtensionContainer { { AdditionalPreferredFrequencyItem-ExtIEs } } OPTIONAL,
    . . .
AdditionalPreferredFrequencyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
AdjustmentPeriod
                            ::= INTEGER(1..256)
-- Unit Frame
AffectedUEInformationForMBMS
                                ::= SEQUENCE (SIZE (1..maxNrOfUEs)) OF S-RNTI
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                PriorityLevel,
                                Pre-emptionCapability,
    pre-emptionCapability
    pre-emptionVulnerability
                                Pre-emptionVulnerability,
    iE-Extensions
                            ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    . . .
AllocationRetentionPriority-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Allowed-Rate-Information
                          ::= SEQUENCE {
    allowed-UL-Rate
                            Allowed-Rate OPTIONAL,
    allowed-DL-Rate
                            Allowed-Rate OPTIONAL,
                            ProtocolExtensionContainer { {Allowed-Rate-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Allowed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Allowed-Rate
                      ::= INTEGER (1..maxNrOfTFs)
-- "1": TFI 0, "2": TFI 1, "3": TFI 2, ...
```

```
AllowedQueuingTime
                            ::= INTEGER (1..60)
-- seconds
AlphaValue
                            ::= INTEGER (0..8)
-- Actual value = Alpha / 8
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 RNSAP-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,g,h,...}
AntennaColocationIndicator ::= ENUMERATED {
    co-located,
    . . .
}
-- B
BadSatellites ::= SEQUENCE {
    badSatelliteInformation
                                SEQUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
            badSAT-ID
                                         SAT-ID,
                                         ProtocolExtensionContainer { { BadSatelliteInformation-ExtIEs } }
            iE-Extensions
                                                                                                                OPTIONAL,
            . . .
       },
                                ProtocolExtensionContainer { { BadSatellites-ExtIEs } }
    iE-Extensions
                                                                                              OPTIONAL,
    . . .
BadSatelliteInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BadSatellites-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Band-Indicator ::= ENUMERATED {
    dcs1800Band,
```

pcs1900Band,

. . .

```
}
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
BindingID
                        ::= OCTET STRING (SIZE (1..4,...))
-- If the Binding ID includes an UDP port, the UDP port is included in octet 1 and 2.
BLER
                        ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
SCTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
BSIC ::= SEQUENCE {
    nCC
                NCC,
    bCC
                BCC
}
BundlingModeIndicator ::= ENUMERATED {
    bundling,
    no-bundling
}
BurstModeParameters ::= SEQUENCE {
    burstStart
                  INTEGER (0..15),
    burstLength
                    INTEGER (10..25),
                    INTEGER (1..16),
    burstFreq
    iE-Extensions
                                ProtocolExtensionContainer { { BurstModeParameters-ExtIEs } }
                                                                                                    OPTIONAL,
    . . .
}
BurstModeParameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
-- C
Cause ::= CHOICE {
                        CauseRadioNetwork,
    radioNetwork
                        CauseTransport,
    transport
    protocol
                        CauseProtocol,
                        CauseMisc,
    misc
    . . .
}
CauseMisc ::= ENUMERATED {
```

control-processing-overload, hardware-failure. om-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, ul-scrambling-code-already-in-use, dl-radio-resources-not-available, ul-radio-resources-not-available, measurement-not-supported-for-the-object, combining-resources-not-available, combining-not-supported, reconfiguration-not-allowed, requested-configuration-not-supported, synchronisation-failure, requested-tx-diversity-mode-not-supported, measurement-temporaily-not-available, unspecified, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, dedicated-transport-channel-type-not-supported, dl-shared-channel-type-not-supported, ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, . . . , number-of-UL-codes-not-supported, cell-reserved-for-operator-use, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object,

power-balancing-status-not-compatible,

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}

```
delayed-activation-not-supported,
    rl-timing-adjustment-not-supported,
    unknown-RNTI.
    measurement-repetition-rate-not-compatible,
    ue-not-capable-of-support,
    f-dpch-not-supported,
    e-dch-not-supported,
    continuous-packet-connectivity-dtx-drx-operation-not-supported,
    continuous-packet-connectivity-hs-scch-less-operation-not-supported,
    mimo-not-supported,
    e-dch-tti2ms-not-supported,
    continuous-packet-connectivity-DTX-DRX-operation-not-available,
    continuous-packet-connectivity-UE-DTX-Cycle-not-available,
    mimo-not-available.
    sixteenOAM-UL-not-Supported,
    hSDSCH-MACdPDU-SizeFormatNotSupported,
    f-dpch-slot-format-operation-not-supported
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
    . . .
CellCapabilityContainer-FDD ::= BIT STRING (SIZE (32))
-- First bit: Flexible Hard Split Support Indicator
-- Second bit: Delayed Activation Support Indicator
-- Third bit: HS-DSCH Support Indicator
-- Fourth bit: DSCH Support Indicator
-- Fifth bit: F-DPCH Support Indicator
-- sixth bit: E-DCH Support Indicator
-- Seventh bit: E-DCH TTI2ms Support Indicator
-- Eighth bit: E-DCH 2sf2and2sf4 and all inferior SFs Support Indicator
-- Ninth bit: E-DCH 2sf2 and all inferior SFs Support Indicator
-- Tenth bit: E-DCH 2sf4 and all inferior SFs Support Indicator
-- Eleventh bit: E-DCH sf4 and all inferior SFs Support Indicator
-- Twelveth bit: E-DCH sf8 and all inferior SFs Support Indicator
-- Thirteenth bit: E-DCH HARO IR Combining Support Indicator
-- Fourteenth bit: E-DCH HARQ Chase Combining Support Indicator
-- Fifteenth bit: Continuous Packet Connectivity DTX-DRX Support Indicator
-- Sixteenth bit: Continuous Packet Connectivity HS-SCCH less Support Indicator
-- Seventeenth bit: MIMO Support Indicator
-- Eighteenth bit: SixteenOAM UL Support Indicator
-- Nineteenth bit: Flexible MAC-d PDU Size Support Indicator
-- Twentieth bit: F-DPCH Slot Format Support Indicator
-- Twentyfirst bit: SixtyfourQAM DL Support Indicator
```

-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainer-TDD ::= BIT STRING (SIZE (32))

- -- First bit: Delayed Activation Support Indicator
- -- Second bit: HS-DSCH Support Indicator
- -- Third bit: DSCH Support Indicator

```
-- The fourth bit: Flexible MAC-d PDU Size Support Indicator
```

-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainer-TDD-LCR ::= BIT STRING (SIZE (32))

- -- First bit: Delayed Activation Support Indicator
- -- Second bit: HS-DSCH Support Indicator
- -- Third bit: DSCH Support Indicator
- -- The fourth bit: Flexible MAC-d PDU Size Support Indicator
- -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

CellCapabilityContainer-TDD768 ::= BIT STRING (SIZE (32))

- -- First bit: Delayed Activation Support Indicator
- -- Second bit: HS-DSCH Support Indicator
- -- Third bit: DSCH Support Indicator
- -- The fourth bit: Flexible MAC-d PDU Size Support Indicator
- -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

```
C-ID
                       ::= INTEGER (0..65535)
                       ::= INTEGER (0..15)
CCTrCH-ID
Cell-Capacity-Class-Value ::= SEQUENCE {
       uplinkCellCapacityClassValue
                                            INTEGER(1..100,...),
        downlinkCellCapacityClassValue
                                            INTEGER(1..100,...)
}
CellIndividualOffset
                      ::= INTEGER (-20..20)
CellParameterID
                            ::= INTEGER (0..127,...)
CellPortionID ::= INTEGER (0..63,...)
CFN
                    ::= INTEGER (0..255)
CGI ::= SEOUENCE {
   lai
                SEQUENCE {
       pLMN-Identity PLMN-Identity,
                        LAC,
       1AC
                                ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
    },
    сI
                    CI.
                            ProtocolExtensionContainer { {CGI-ExtIEs} } OPTIONAL
    iE-Extensions
LAI-EXTIES RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
ChannelCodingType ::= ENUMERATED {
    no-codingTDD,
    convolutional-coding,
    turbo-coding,
    . . .
}
ChipOffset
                       ::= INTEGER (0..38399)
CI
                    ::= OCTET STRING (SIZE (2))
ClosedLoopMode1-SupportIndicator
                                     ::= ENUMERATED
    closedLoop-Mode1-Supported,
    closedLoop-Mode1-not-Supported
}
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
}
CodingRate ::= ENUMERATED {
    half.
    third.
    . . .
3
CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass
                                             TUTRANGPSAccuracyClass,
    . . . . .
    tUTRANGANSSMeasurementAccuracyClass
                                             TUTRANGANSSAccuracyClass
}
CommonMeasurementType ::= ENUMERATED {
    uTRAN-GPS-timing-of-cell-frames-for-UE-Positioning,
    sFN-SFN-observerd-time-difference,
    load,
    transmitted-carrier-power,
    received-total-wide-band-power,
    uplink-timeslot-iscp,
    ...,
    rT-load,
    nRT-load-Information,
    upPTSInterference,
    uTRAN-GANSS-timing-of-cell-frames-for-UE-Positioning
-- For measurements on the Iur-q interface, only load, RT Load and NRT Load information are requested.
CommonMeasurementValue ::= CHOICE {
    tUTRANGPSMeasurementValueInformation
                                             TUTRANGPSMeasurementValueInformation,
    sFNSFNMeasurementValueInformation
                                             SFNSFNMeasurementValueInformation,
    loadValue
                                             LoadValue,
```

```
transmittedCarrierPowerValue
                                            INTEGER(0..100),
    receivedTotalWideBandPowerValue
                                            INTEGER(0..621),
    uplinkTimeslotISCPValue
                                            UL-TimeslotISCP,
    . . . .
    extension-CommonMeasurementValue
                                            Extension-CommonMeasurementValue
                                     ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}
Extension-CommonMeasurementValue
Extension-CommonMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
      ID id-RTLoadValue
                                                         CRITICALITY ignore TYPE RTLoadValue
                                                                                                                            PRESENCE mandatory
      ID id-NRTLoadInformationValue
                                                         CRITICALITY ignore TYPE NRTLoadInformationValue
                                                                                                                            PRESENCE mandatory
      ID id-UpPTSInterferenceValue
                                                         CRITICALITY reject TYPE UpPTSInterferenceValue
                                                                                                                            PRESENCE mandatory } |
      ID id-TUTRANGANSSMeasurementValueInformation
                                                         CRITICALITY reject TYPE TUTRANGANSSMeasurementValueInformation PRESENCE mandatory
3
-- For measurements on the Iur-g interface, only load, RT Load and NRT Load values are reported.
CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                CommonMeasurementAvailable,
    measurementnotAvailable
                                NULL
CommonMeasurementAvailable::= SEOUENCE {
    commonMeasurementValue
                                CommonMeasurementValue,
    iE-Extensions
                                    ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }
                                                                                                                  OPTIONAL,
    . . .
CommonMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CongestionCause ::= ENUMERATED {
    uTRAN-dynamic-resources,
    uTRAN-semistatic-resources,
    . . .
CommonTransportChannelResourcesInitialisationNotRequired ::= ENUMERATED
    not-Required
}
Continuous-Packet-Connectivity-DTX-DRX-Information ::= SEQUENCE {
    uE-DTX-DRX-Offset
                                                 UE-DTX-DRX-Offset,
    enabling-Delav
                                                 Enabling-Delay,
    dTX-Information
                                                 DTX-Information,
    dRX-Information
                                                 DRX-Information
                                                                                         OPTIONAL,
                                                 ProtocolExtensionContainer { { Continuous-Packet-Connectivity-DTX-DRX-Information-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
```

```
Continuous-Packet-Connectivity-DTX-DRX-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Continuous-Packet-Connectivity-DTX-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,
                                                ProtocolExtensionContainer { { Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify-ExtIEs
    iE-Extensions
} }
           OPTIONAL,
    . . .
Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify-Extles RNSAP-PROTOCOL-EXTENSION ::= {
Continuous-Packet-Connectivity-HS-SCCH-Less-Information ::= SEOUENCE (SIZE (1..maxNrOfHS-DSCHTBSs-HS-SCCHless)) OF Continuous-Packet-Connectivity-
HS-SCCH-Less-InformationItem
Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem ::= SEQUENCE {
    transport-Block-Size-Index
                                            Transport-Block-Size-Index,
                                            HSPDSCH-Second-Code-Support,
    hSPDSCH-Second-Code-Support
                                            ProtocolExtensionContainer { { Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem-ExtIEs } }
   iE-Extensions
           OPTIONAL.
    . . .
Continuous-Packet-Connectivity-HS-SCCH-Less-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response ::= SEQUENCE {
                                            HSPDSCH-First-Code-Index,
    hSPDSCH-First-Code-Index
   hSPDSCH-Second-Code-Index
                                            HSPDSCH-Second-Code-Index
                                                                                     OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response-ExtIEs
} }
           OPTIONAL,
    . . .
3
Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CorrespondingCells ::= SEQUENCE (SIZE (1..maxNrOfCellsPerFreq)) OF C-ID
CoverageIndicator ::= ENUMERATED {
    overlap,
    covers,
    containedIn,
    . . .
```

```
CPC-Information ::= SEQUENCE
    continuous-Packet-Connectivity-DTX-DRX-Information
                                                                             Continuous-Packet-Connectivity-DTX-DRX-Information
                                                                                                                                        OPTIONAL.
    continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify
                                                                             Continuous-Packet-Connectivity-DTX-DRX-Information-to-Modify
    OPTIONAL,
    continuous-Packet-Connectivity-HS-SCCH-Less-Information
                                                                             Continuous-Packet-Connectivity-HS-SCCH-Less-Information
    OPTIONAL,
                                ProtocolExtensionContainer { { CPC-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CPC-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator
                                                                                     CRITICALITY reject
                                                                                                                  EXTENSION Continuous-Packet-
Connectivity-HS-SCCH-less-Deactivate-Indicator
                                                         PRESENCE optional },
    . . .
Continuous-Packet-Connectivity-HS-SCCH-less-Deactivate-Indicator ::= NULL
CRC-Size
                        ::= ENUMERATED {
   v0,
    v8,
    v12,
    v16.
    v24,
    . . .
CriticalityDiagnostics ::= SEQUENCE {
    procedureID
                                ProcedureID
                                                    OPTIONAL,
    triggeringMessage
                                TriggeringMessage
                                                         OPTIONAL,
    procedureCriticality
                                Criticality
                                                        OPTIONAL,
                                                        OPTIONAL,
    transactionID
                                TransactionID
    iEsCriticalityDiagnostics
                                    CriticalityDiagnostics-IE-List OPTIONAL,
                                ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    iE-Extensions
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEOUENCE {
       iECriticalitv
                                Criticality,
       iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber0
                                                         OPTIONAL,
       iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        . . .
```

```
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

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```

```
ID id-MessageStructure
                                                                                           PRESENCE optional }|
                                 CRITICALITY ignore
                                                         EXTENSION MessageStructure
    ID id-TypeOfError
                                 CRITICALITY ignore
                                                         EXTENSION TypeOfError
                                                                                          PRESENCE mandatory },
    . . .
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEOUENCE {
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        . . .
    }
MessageStructure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-CS-DomainIdentifier ::= SEQUENCE {
    pLMN-Identity
                        PLMN-Identity,
    lac
                        LAC,
                        ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs } } OPTIONAL
    iE-Extensions
}
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-PS-DomainIdentifier ::= SEQUENCE {
    pLMN-Identity
                        PLMN-Identity,
    lac
                        LAC,
    rAC
                        RAC,
    iE-Extensions
                        ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs } } OPTIONAL
}
CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CNDomainType
                ::= ENUMERATED {
    cs-domain,
    ps-domain,
    dont-care,
    . . .
-- See in [16]
CommonPhysicalChannelID ::= INTEGER (0..255)
CQI-DTX-Timer ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
    -- Unit subframe
ControlGAP ::= INTEGER (1..255)
```

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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. [21] subclause 4.2.1 COI-RepetitionFactor ::= INTEGER (1..4,...) -- Step: 1 C-RNTI ::= INTEGER (0..65535) CodeRate ::= INTEGER (0..63) CodeRate-short ::= INTEGER (0..10) -- D DATA-ID ::= INTEGER (0..3) 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} } OPTIONAL, iE-Extensions . . . J DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional }, . . . } DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item DCH-Specific-FDD-Item ::= SEQUENCE { dCH-ID DCH-ID, trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr, ul-transportFormatSet TransportFormatSet, dl-transportFormatSet TransportFormatSet, ul-BLER BLER, dl-BLER BLER, allocationRetentionPriority AllocationRetentionPriority, frameHandlingPriority FrameHandlingPriority, qE-Selector QE-Selector, dRACControl DRACControl, ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs} } OPTIONAL, iE-Extensions . . . }

DCH-FDD-SpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
ID id-Guaranteed-Rate-Information
                                                                                                            PRESENCE optional } |
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
      ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
     ID id-Unidirectional-DCH-Indicator
                                            CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                            PRESENCE optional },
    . . .
3
DCH-Indicator-For-E-DCH-HSDPA-Operation ::= ENUMERATED {
    dch-not-present
DCH-ID
                        ::= INTEGER (0..255)
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 } } OPTIONAL,
    iE-Extensions
    . . .
DCH-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-Allowed-Rate-Information
                                                CRITICALITY ignore EXTENSION Allowed-Rate-Information
                                                                                                                     PRESENCE optional }
     ID id-TransportBearerNotSetupIndicator
                                                CRITICALITY iqnore EXTENSION TransportBearerNotSetupIndicator
                                                                                                                     PRESENCE optional }, -- FDD only
    . . .
3
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,
    dCH-SpecificInformationList
                                        DCH-Specific-TDD-InformationList,
    iE-Extensions
                                        ProtocolExtensionContainer { {DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
DCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlOos
                                        CRITICALITY
                                                         ignore
                                                                     EXTENSION TnlOos
                                                                                             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, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID
                                        CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    trCH-SrcStatisticsDescr
                                        TrCH-SrcStatisticsDescr,
    ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
```

```
ul-BLER
                                        BLER,
    dl-BLER
                                        BLER.
    allocationRetentionPriority
                                        AllocationRetentionPriority.
    frameHandlingPriority
                                        FrameHandlingPriority,
    gE-Selector
                                        OE-Selector
                                                            OPTIONAL.
    -- This IE shall be present if DCH is part of set of Co-ordinated DCHs
                                        ProtocolExtensionContainer { {DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-Specific-TDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
      ID id-Guaranteed-Rate-Information
                                                                                                           PRESENCE optional } |
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
      ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
     ID id-Unidirectional-DCH-Indicator
                                            CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator
                                                                                                           PRESENCE optional },
    . . .
3
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,
    rx-timing-deviation-768,
    rx-timing-deviation-ext
DedicatedMeasurementValue ::= CHOICE {
                        SIR-Value,
    sIR-Value
    sIR-ErrorValue
                            SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
                        RSCP-Value, -- TDD only
    rSCP
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- 3.84Mcps TDD only
    roundTripTime
                        Round-Trip-Time-Value, -- FDD only
    . . . ,
    extension-DedicatedMeasurementValue
                                            Extension-DedicatedMeasurementValue
Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}
Extension-DedicatedMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
      ID id-Rx-Timing-Deviation-Value-LCR
                                            CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR PRESENCE mandatory }
      ID id-Angle-Of-Arrival-Value-LCR
                                            CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR PRESENCE mandatory }
      ID id-HS-SICH-Reception-Quality
                                            CRITICALITY reject TYPE HS-SICH-Reception-Quality-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-ext
                                            CRITICALITY reject TYPE Rx-Timing-Deviation-Value-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::= SEOUENCE {
    dedicatedmeasurementValue
                                     DedicatedMeasurementValue,
                                     CFN
    CFN
                                                             OPTIONAL,
    ie-Extensions
                                     ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
٦
DedicatedMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
DedicatedMeasurementnotAvailable ::= NULL
DelayedActivation ::= CHOICE {
    cfn
                            CFN
                            NULL
    separate-indication
}
DelayedActivationUpdate ::= CHOICE {
    activate
                    Activate-Info,
                    Deactivate-Info
    deactivate
3
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 RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-ExtendedPropagationDelay CRITICALITY ignore EXTENSION ExtendedPropagationDelay
                                                                                                    PRESENCE optional },
    . . .
}
Deactivate-Info ::= SEQUENCE {
    deactivation-type
                            Execution-Type,
    iE-Extensions
                            ProtocolExtensionContainer { { Deactivate-Info-ExtIEs } }
                                                                                              OPTIONAL,
    . . .
}
Deactivate-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
}
Execution-Type ::= CHOICE {
    synchronised
                    CFN.
    unsynchronised NULL
}
DeltaSIR
                       ::= INTEGER (0..30)
-- Step 0.1 dB, Range 0..3 dB.
DGANSSCorrections ::= SEQUENCE {
    dGANSS-ReferenceTime
                                    INTEGER(0..119),
    dGANSS-Information
                                     SEQUENCE (SIZE (1..maxSqnType)) OF SEQUENCE {
        qANSS-SignalId
                                         GANSS-Signal-ID
                                                                                                                       OPTIONAL,
        gANSS-StatusHealth
                                         GANSS-StatusHealth,
-- The following IE shall be present if the StatusHealth IE value is not equal to "no data" or "invalid data"
        dGANSS-SignalInformation
                                         SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
            satId
                                             INTEGER(0..63),
            qANSS-iod
                                             BIT STRING (SIZE (10)),
            udre
                                             UDRE,
                                             INTEGER(-2047..2047),
            ganss-prc
                                             INTEGER(-127..127),
            ganss-rrc
            ie-Extensions
                                             ProtocolExtensionContainer { { DGANSS-SignalInformationItem-ExtIEs } } OPTIONAL,
            . . .
                                                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { DGANSS-InformationItem-ExtIEs } }
        ie-Extensions
                                                                                                                       OPTIONAL,
        . . .
    },
    ie-Extensions
                                     ProtocolExtensionContainer { { DGANSSCorrections-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
DGANSSCorrections-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-Corrections-Reg ::= SEQUENCE {
    dGANSS-Signal-ID
                                         BIT STRING (SIZE (8)),
                                         ProtocolExtensionContainer { { DGANSS-Corrections-Req-ExtIEs } }
    ie-Extensions
                                                                                                                       OPTIONAL,
    . . .
}
DGANSS-Corrections-Req-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
DGANSS-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGANSS-SignalInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
}
DGANSSThreshold ::= SEQUENCE {
    pRCDeviation
                        PRCDeviation,
    . . .
}
DGPSCorrections ::= SEQUENCE {
    qPSTOW
                                             GPSTOW,
    qPS-Status-Health
                                             GPS-Status-Health,
    satellite-DGPSCorrections-Information SEQUENCE (SIZE (1..maxNoSat)) OF
        SEOUENCE {
            sAT-ID
                                                 SAT-ID,
            iode-dgps
                                                 BIT STRING (SIZE (8)),
            uDRE
                                                 UDRE,
            pRC
                                                 PRC,
                                                 Range-Correction-Rate,
            range-Correction-Rate
                                                 ProtocolExtensionContainer { { Satellite-DGPSCorrections-Information-ExtIEs } }
            iE-Extensions
                                                                                                                                      OPTIONAL,
            . . .
        },
    iE-Extensions
                                     ProtocolExtensionContainer { { DGPSCorrections-ExtIEs } }
                                                                                                     OPTIONAL,
    . . .
l
Satellite-DGPSCorrections-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSCorrections-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSThreshold ::= SEQUENCE {
    pRCDeviation
                        PRCDeviation,
    iE-Extensions
                        ProtocolExtensionContainer { { DGPSThreshold-ExtIEs } }
                                                                                       OPTIONAL,
    . . .
}
DGPSThreshold-ExtIEs RNSAP-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, v7500, v1000, v1250, v1500, v1500,
 . . .
}
DiversityControlField
                                                                    ::= ENUMERATED {
        may,
        must,
        must-not
}
                                                       ::= ENUMERATED {
DiversityMode
        none.
        STTD.
        closedLoopMode1,
        not-used-closedLoopMode2,
         . . .
DL-DPCH-SlotFormat
                                                        ::= INTEGER (0..16,...)
DL-DPCH-TimingAdjustment ::= ENUMERATED {
        timing-advance,
         timing-delay
}
DL-Power
                                                   ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step 0.1dB
DL-PowerBalancing-Information ::= SEQUENCE {
        powerAdjustmentType
                                                                                     PowerAdjustmentType,
        dLReferencePower
                                                                                     DL-Power
                                                                                                                        OPTIONAL,
        -- This IE shall be present if Power Adjustment Type IE equals to 'Common'
                                                                   DL-ReferencePowerInformationList
        dLReferencePowerList
                                                                                                                                                           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
                                                                                                                                          OPTIONAL,
        adjustmentPeriod
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
                                                                                     ScaledAdjustmentRatio OPTIONAL,
         adjustmentRatio
         -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
        iE-Extensions
                                                                                     ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
         . . .
DL-PowerBalancing-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
         . . .
l
DL-ReferencePowerInformationList
                                                                                     ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SEQUENCE {
        rL-ID
                                                                     RL-ID,
```

```
dl-Reference-Power
                                DL-Power,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {
    dL-PowerBalancing-Activated
}
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED
    dL-PowerBalancing-Updated
3
DL-ReferencePowerInformation
                                ::= SEQUENCE
    common-DL-ReferencePowerInformation
                                                 DL-Power
                                                                 OPTIONAL,
    individual-DL-ReferencePowerInformation
                                                 DL-ReferencePowerInformationList
                                                                                          OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { DL-ReferencePowerInformation-ExtIEs } } OPTIONAL,
    . . .
}
DL-ReferencePowerInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
}
D-RNTI
                        ::= INTEGER (0..1048575)
D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}
DL-ScramblingCode
                            ::= INTEGER (0..15)
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    . . .
DL-Timeslot-Information ::= SEQUENCE ( SIZE (1..maxNrOfTS)) 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} } OPTIONAL,
    iE-Extensions
    . . .
```

```
DL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) 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 RNSAP-PROTOCOL-EXTENSION ::= {
    { 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-Timeslot-Information768 ::= SEOUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem768
DL-Timeslot-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
   midambleShiftAndBurstType768
                                   MidambleShiftAndBurstType768,
    tFCI-Presence
                                    TFCI-Presence,
    dL-Code-Information768
                                    TDD-DL-Code-Information768,
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem768-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DL-Timeslot-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-TimeSlot-ISCP-InfoItem
DL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
   timeSlot
                                TimeSlot.
    dL-TimeslotISCP
                                DL-TimeslotISCP,
                                ProtocolExtensionContainer { { DL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
DL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeSlot-ISCP-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-TimeSlot-ISCP-LCR-InfoItem
DL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
```

```
timeSlotLCR
                                    TimeSlotLCR,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
    iE-Extensions
                                     ProtocolExtensionContainer { { DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } }
                                                                                                                OPTIONAL.
    . . .
 }
DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeslotISCP
                    ::= INTEGER (0..91)
-- According to mapping in [24]
Downlink-Compressed-Mode-Method
                                    ::= ENUMERATED
    not-Used-puncturing,
    sFdiv2,
    higher-layer-scheduling,
    . . .
}
DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
   . . .
DPC-Mode-Change-SupportIndicator ::= ENUMERATED {
   dPC-ModeChangeSupported
DPCH-ID
                        ::= INTEGER (0..239)
DPCH-ID768 ::= INTEGER (0..479)
DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB
                ::= ENUMERATED {
DRACControl
    not-Used-requested,
    not-requested
}
DRXCycleLengthCoefficient
                                        ::= INTEGER (3..9)
-- See in [16]
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,
    iE-Extensions
                                             ProtocolExtensionContainer { {DRX-Information-ExtIEs} } OPTIONAL,
    . . .
```

```
DRX-Information-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-RNTI ::= INTEGER (0..65535)
DSCH-FlowControlInformation ::= SEQUENCE (SIZE(1..16)) OF DSCH-FlowControlItem
DSCH-FlowControlItem ::= SEQUENCE {
    dSCH-SchedulingPriority
                                        SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                        MAC-c-sh-SDU-LengthList,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-FlowControlItem-ExtIEs } } OPTIONAL,
    . . .
DSCH-FlowControlItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DSCH-InitialWindowSize CRITICALITY ignore EXTENSION DSCH-InitialWindowSize PRESENCE optional },
    . . .
}
DSCH-ID
                        ::= INTEGER (0..255)
DSCH-InitialWindowSize
                                ::= INTEGER (1..255)
-- Number of MAC-c/sh SDUs.
-- 255 = Unlimited number of MAC-c/sh SDUs
DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNoOfDSCHs)) OF DSCH-TDD-InformationItem
DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID, -- DL CCTrCH in which the DSCH is mapped
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
```

```
allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bler
                                        BLER.
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    . . .
DSCH-TDD-InformationItem-Extles RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-TrafficClass
                                            CRITICALITY ignore EXTENSION TrafficClass
                                                                                                      PRESENCE mandatory } |
    { 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 },
    -- Shall be ignored if bearer establishment with ALCAP.
    . . .
DsField ::= BIT STRING (SIZE (8))
DTX-Cycle-2ms-Items ::= SEQUENCE {
    uE-DTX-Cycle1-2ms
                                    UE-DTX-Cycle1-2ms,
    uE-DTX-Cycle2-2ms
                                    UE-DTX-Cvcle2-2ms,
   mAC-DTX-Cycle-2ms
                                    MAC-DTX-Cycle-2ms,
    iE-Extensions
                                                 ProtocolExtensionContainer { { DTX-Cycle-2ms-Items-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
DTX-Cycle-2ms-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DTX-Cycle-2ms-to-Modify-Items ::= SEQUENCE {
                                    UE-DTX-Cvcle1-2ms
    uE-DTX-Cvcle1-2ms
                                                                 OPTIONAL.
   uE-DTX-Cycle2-2ms
                                    UE-DTX-Cycle2-2ms
                                                                 OPTIONAL.
   mAC-DTX-Cycle-2ms
                                    MAC-DTX-Cycle-2ms
                                                                 OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-2ms-to-Modify-Items-ExtIEs} }
                                                                                                                              OPTIONAL,
    . . .
DTX-Cycle-2ms-to-Modify-Items-ExtIEs RNSAP-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,
                                                ProtocolExtensionContainer { { DTX-Cycle-10ms-Items-ExtIEs} }
    iE-Extensions
                                                                                                                           OPTIONAL
    . . .
```

```
DTX-Cycle-10ms-Items-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
DTX-Cycle-10ms-to-Modify-Items ::= SEQUENCE {
    uE-DTX-Cycle1-10ms
                                    UE-DTX-Cycle1-10ms
                                                                 OPTIONAL,
    uE-DTX-Cycle2-10ms
                                    UE-DTX-Cycle2-10ms
                                                                 OPTIONAL,
   mAC-DTX-Cycle-10ms
                                    MAC-DTX-Cycle-10ms
                                                                                                                           OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
DTX-Cycle-10ms-to-Modify-Items-ExtIEs RNSAP-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
                                CQI-DTX-Timer,
                                UE-DPCCH-burst1,
    uE-DPCCH-burst1
                                UE-DPCCH-burst2,
    uE-DPCCH-burst2
                                ProtocolExtensionContainer { {DTX-Information-ExtlEs} } OPTIONAL,
    iE-Extensions
    . . .
DTX-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DTX-Information-to-Modify ::= CHOICE {
    modify
                         DTX-Information-to-Modify-Items,
    deactivate
                         NULL,
    . . .
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
                                                                         OPTIONAL,
    cQI-DTX-Timer
    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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
-- E
```

EDCH-DDI-Value ::= INTEGER (0..62)

EDCH-FDD-DL-ControlChannelInformation ::= SEQUENCE eAGCH-ERGCH-EHICH-FDD-ScramblingCode eAGCH-ChannelisationCode primary-e-RNTI secondary-e-RNTI eRGCH-EHICH-ChannelisationCode eRGCH-SignatureSequence eHICH-SignatureSequence serving-Grant-Value primary-Secondary-Grant-Selector e-RGCH-Release-Indicator iE-Extensions OPTIONAL, 	<pre>{     DL-ScramblingCode     FDD-DL-ChannelisationCodeNumber     E-RNTI     E-RNTI     FDD-DL-ChannelisationCodeNumber,     ERGCH-SignatureSequence     EHICH-SignatureSequence     E-Serving-Grant-Value     E-Primary-Secondary-Grant-Selector     E-RGCH-Release-Indicator     ProtocolExtensionContainer { { EDC</pre>	OPTIONAL,	ation-ExtIEs } }
}			
EDCH-FDD-DL-ControlChannelInformation-ExtIES RNSAP-PROTOCOL-EXTENSION ::= { { { ID id-E-RGCH-E-HICH-ChannelisationCodeValidityIndicator CRITICALITY ignore EXTENSION E-RGCH-E-HICH-ChannelisationCodeValidityIndicator PRESENCE optional }  { ID id-Default-Serving-Grant-in-DTX-Cycle2 CRITICALITY ignore EXTENSION E-Serving-Grant-Value PRESENCE optional },			
<pre>} E-RGCH-E-HICH-ChannelisationCodeValidityIndicator ::= ENUMERATED {     e-RGCH-E-HICH-Channelisation-Code-response-not-valid }</pre>			
<pre>EDCH-FDD-Information ::= SEQUENCE {    eDCH-MACdFlows-Information    hARQ-Process-Allocation-Scheduled-2ms-EDCH    e-DCH-Maximum-Bitrate    e-DCH-Processing-Overload-Level    e-DCH-Reference-Power-Offset    iE-Extensions  }</pre>	EDCH-MACdFlows-Information, HARQ-Process-Allocation-2ms-EDCH E-DCH-Maximum-Bitrate E-DCH-Processing-Overload-Level E-DCH-Reference-Power-Offset ProtocolExtensionContainer { { EDCH-FD	D-Information-ExtIEs } }	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,
<pre>EDCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSI { ID id-E-DCH-PowerOffset-for-SchedulingInfo { ID id-SixteenQAM-UL-Operation-Indicator     optional},</pre>		PowerOffset-for-SchedulingInf SixteenQAM-UL-Operation-Ind	- , , ,
<pre>} EDCH-FDD-InformationResponse ::= SEQUENCE {     eDCH-MACdFlow-Specific-InformationResponse     hARQ-Process-Allocation-Scheduled-2ms-EDCH     iE-Extensions  }</pre>	EDCH-MACdFlow-Specific-Informa HARQ-Process-Allocation-2ms-ED ProtocolExtensionContainer { {	СН	OPTIONAL, -ExtIEs } } OPTIONAL,

EDCH-FDD-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= . . . EDCH-MACdFlow-Specific-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InformationResponseItem EDCH-MACdFlow-Specific-InformationResponseItem ::= SEQUENCE { eDCH-MACdFlow-ID EDCH-MACdFlow-ID, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, hARQ-Process-Allocation-NonSched-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL. iE-Extensions ProtocolExtensionContainer { {EDCH-MACdFlow-Specific-InformationResponseItem-ExtIEs} } OPTIONAL, . . . EDCH-MACdFlow-Specific-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator PRESENCE optional }, -- FDD only . . . EDCH-FDD-Information-To-Modify ::= SEQUENCE { eDCH-MACdFlow-Specific-Information EDCH-MACdFlow-Specific-InfoToModifvList, 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, mACeReset-Indicator MACeReset-Indicator OPTIONAL, ProtocolExtensionContainer { { EDCH-FDD-Information-To-Modify-ExtIEs } } iE-Extensions OPTIONAL, . . . EDCH-FDD-Information-To-Modify-ExtIEs RNSAP-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 SixteenOAM-UL-Operation-Indicator PRESENCE optional} { ID id-E-DCH-DL-Control-Channel-Grant-Information E-DCH-DL-Control-Channel-Grant-Information CRITICALITY ignore EXTENSION PRESENCE optional}, . . . E-DCH-FDD-Update-Information ::= SEQUENCE { e-DCH-MACdFlow-Specific-UpdateInformation E-DCH-MACdFlow-Specific-UpdateInformation OPTIONAL, hARO-Process-Allocation-Scheduled-2ms-EDCH HARO-Process-Allocation-2ms-EDCH OPTIONAL. ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } } iE-Extensions OPTIONAL, . . . } E-DCH-FDD-Update-Information-ExtIEs RNSAP-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 EDCH-MACdFlow-ID, hARO-Process-Allocation-NonSched-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL, ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs} } iE-Extensions OPTIONAL, . . . E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs RNSAP-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, . . . } E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs RNSAP-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, . . . E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs RNSAP-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, . . . E-DCH-HARQ-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs) E-DCH-LogicalChannelInformation ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelInformationItem E-DCH-LogicalChannelInformationItem ::= SEQUENCE logicalChannelId LogicalChannelID,

```
schedulingPriorityIndicator
                                     SchedulingPriorityIndicator,
    schedulingInformation
                                    SchedulingInformation,
    mACes-GuaranteedBitRate
                                    MACes-Guaranteed-Bitrate
                                                                     OPTIONAL.
    eDCH-DDI-Value
                                    EDCH-DDI-Value.
    mACd-PDU-Size-List
                                    E-DCH-MACdPDU-SizeList,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs } }
                                                                                                                            OPTIONAL,
    iE-Extensions
    . . .
E-DCH-LogicalChannelInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARO-PO-OUANTSTEPs)
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 ::= SEOUENCE {
    mACdPDU-Size
                                    MACdPDU-Size,
                                    ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }
                                                                                                                   OPTIONAL,
    iE-Extensions
    . . .
E-DCH-MACdPDU-SizeListItem-ExtIEs RNSAP-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,
    mACes-GuaranteedBitRate
                                    MACes-Guaranteed-Bitrate
                                                                     OPTIONAL,
                                    EDCH-DDI-Value
    eDCH-DDI-Value
                                                                     OPTIONAL,
                                    E-DCH-MACdPDU-SizeToModifyList,
    mACd-PDU-Size-List
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
ļ
E-DCH-LogicalChannelToModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
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,
                                    ProtocolExtensionContainer { { E-DCH-LogicalChannelToDeleteItem-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
E-DCH-LogicalChannelToDeleteItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
LogicalChannelID ::= INTEGER (1..15)
EDCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)
EDCH-MACdFlows-Information ::= SEQUENCE {
    eDCH-MACdFlow-Specific-Information
                                                     EDCH-MACdFlow-Specific-InfoList,
                                                     ProtocolExtensionContainer { { EDCH-MACdFlow-Information-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMACdFlows) )
EDCH-MACdFlow-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InfoItem
EDCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    eDCH-MACdFlow-ID
                                        EDCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                             OPTIONAL,
    tnlOoS
                                        Tnl0os
                                                                             OPTIONAL,
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
                                        MaxNr-Retransmissions-EDCH,
    maxNr-Retransmissions-EDCH
                                        TrafficClass.
    trafficClass
    eDCH-HARQ-PO-FDD
                                        E-DCH-HARQ-PO-FDD,
    eDCH-MACdFlow-Multiplexing-List
                                        E-DCH-MACdFlow-Multiplexing-List
                                                                             OPTIONAL,
    eDCH-Grant-Type-Information
                                        E-DCH-Grant-Type-Information
                                                                             OPTIONAL.
    bundlingModeIndicator
                                        BundlingModeIndicator
                                                                             OPTIONAL,
    eDCHLogicalChannelInformation
                                        E-DCH-LogicalChannelInformation,
                                        ProtocolExtensionContainer { { EDCH-MACdFlow-Specific-InfoItem-ExtIEs } }
    iE-Extensions
                                                                                                                           OPTIONAL,
    . . .
EDCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-TrCH-SrcStatisticsDescr CRITICALITY ignore EXTENSION TrCH-SrcStatisticsDescr PRESENCE optional },
```

. . .

```
}
EDCH-MACdFlow-Specific-InfoToModifyList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlow-Specific-InfoToModifyItem
EDCH-MACdFlow-Specific-InfoToModifyItem ::= SEQUENCE {
    eDCH-MACdFlow-ID
                                         EDCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                              OPTIONAL.
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    tnl0oS
                                        Tnl0os
                                                                              OPTIONAL,
                                        MaxNr-Retransmissions-EDCH
    maxNr-Retransmissions-EDCH
                                                                              OPTIONAL,
    trafficClass
                                         TrafficClass
                                                                              OPTIONAL,
    eDCH-HARQ-PO-FDD
                                         E-DCH-HARQ-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,
    eDCH-LogicalChannelToAdd
                                         E-DCH-LogicalChannelInformation
                                                                              OPTIONAL,
    eDCH-LogicalChannelToModify
                                         E-DCH-LogicalChannelToModify
                                                                              OPTIONAL,
    eDCH-LogicalChannelToDelete
                                         E-DCH-LogicalChannelToDelete
                                                                              OPTIONAL,
                                         ProtocolExtensionContainer { { EDCH-MACdFlow-Specific-InfoToModifyItem-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
EDCH-MACdFlow-Specific-InfoToModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-MACdFlows-To-Delete ::= SEOUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF EDCH-MACdFlows-To-Delete-Item
EDCH-MACdFlows-To-Delete-Item ::= SEQUENCE {
                                         EDCH-MACdFlow-ID,
    eDCH-MACdFlow-ID
    iE-Extensions
                                         ProtocolExtensionContainer { { EDCH-MACdFlows-To-Delete-Item-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
EDCH-MACdFlows-To-Delete-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EDCH-RL-Indication ::= ENUMERATED {
    eDCH,
    non-EDCH
}
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
                                                 HARQ-Process-Allocation-2ms-EDCH
    OPTIONAL,
                                                 ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
```

```
E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs RNSAP-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 },
    . . .
3
E-DCH-TFCI-Table-Index ::= INTEGER (0..1,...,2..7)
E-DCH-Serving-cell-change-informationResponse ::= SEQUENCE {
    e-DCH-serving-cell-outcome-choice
                                            E-DCH-serving-cell-change-choice,
    iE-Extensions
                                             ProtocolExtensionContainer { { E-DCH-serving-cell-change-informationResponse-ExtIEs } OPTIONAL,
    . . .
٦
E-DCH-serving-cell-change-informationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
E-DCH-serving-cell-change-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-serving-cell-change-successful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-RL-InformationList-Rsp ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF E-DCH-RL-InformationList-Rsp-Item
E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
    e-DCH-reconfigured-RL-Id
                                                 RL-ID,
    e-DCH-FDD-DL-Control-Channel-Info
                                                 EDCH-FDD-DL-ControlChannelInformation,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs } } OPTIONAL,
    . . .
E-DCH-RL-InformationList-Rsp-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
    cause
                                     Cause,
    iE-Extensions
                                     ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL,
    . . .
```

```
E-DCH-serving-cell-change-unsuccessful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TTI-Length ::= CHOICE {
                DTX-Cycle-2ms-Items,
    two-ms
    ten-ms
                DTX-Cvcle-10ms-Items,
    . . .
E-DCH-TTI-Length-to-Modify ::= CHOICE {
                DTX-Cycle-2ms-to-Modify-Items,
    two-ms
    ten-ms
                DTX-Cycle-10ms-to-Modify-Items,
    . . .
3
EDPCH-Information-FDD ::= SEQUENCE {
                                                              Max-Set-E-DPDCHs,
    maxSet-E-DPDCHs
    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
                                                             HARO-Info-for-E-DCH,
    hSDSCH-Configured-Indicator
                                                             HSDSCH-Configured-Indicator,
                                         ProtocolExtensionContainer { { EDPCH-Information-FDD-ExtIEs } }
    iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
3
EDPCH-Information-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EDPCH-Information-RLReconfPrepare-FDD ::= SEQUENCE {
    maxSet-E-DPDCHs
                                                 Max-Set-E-DPDCHs
                                                                          OPTIONAL,
    punctureLimit
                                                                          OPTIONAL,
                                                 PunctureLimit
    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,
    hARQ-Info-for-E-DCH
                                                 HARQ-Info-for-E-DCH
                                                                                       OPTIONAL,
    hSDSCH-Configured-Indicator
                                                 HSDSCH-Configured-Indicator
                                                                                       OPTIONAL,
                                         ProtocolExtensionContainer { { EDPCH-Information-RLReconfPrepare-FDD-ExtIEs } }
    iE-Extensions
                                                                                                                                   OPTIONAL,
    . . .
}
EDPCH-Information-RLReconfPrepare-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EDPCH-Information-RLReconfRequest-FDD ::= SEQUENCE
```

```
maxSet-E-DPDCHs
                                                             Max-Set-E-DPDCHs
                                                                                                                                  OPTIONAL,
    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 { { EDPCH-Information-RLReconfRequest-FDD-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
EDPCH-Information-RLReconfRequest-FDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DPCCH-PO ::= INTEGER (0..maxNrOfEDPCCH-PO-QUANTSTEPs)
E-DPDCH-PowerInterpolation ::= BOOLEAN
E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
    primary,
    secondary
EHICH-SignatureSequence ::= INTEGER (0..maxNrofSigSegERGHICH-1)
E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
ERGCH-SignatureSequence ::= INTEGER (0..maxNrofSigSegERGHICH-1)
E-Serving-Grant-Value ::= INTEGER (0..38)
E-RGCH-2-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-3-IndexStepThreshold ::= INTEGER (0..37)
EDCH-Serving-RL ::= CHOICE {
    e-DCH-Serving-RL-in-this-DRNS
                                             EDCH-Serving-RL-in-this-DRNS,
    e-DCH-Serving-RL-not-in-this-DRNS
                                             NULL,
    . . .
EDCH-Serving-RL-in-this-DRNS ::= SEQUENCE {
    e-DCH-Serving-RL-Id
                                    RL-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { EDCH-Serving-RL-in-this-DRNS-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
}
EDCH-Serving-RL-in-this-DRNS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
```

}

```
Enhanced-FACH-Information-ResponseFDD ::= SEQUENCE {
    common-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
    dedicated-HS-DSCH-RNTI-priorityQueueInfo-EnhancedFACH
                                                                         PriorityQueue-InfoList-EnhancedFACH-PCH,
    priorityQueueInfo-EnhancedPCH
                                                 PriorityOueue-InfoList-EnhancedFACH-PCH
                                                                                                             OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation
                                                             HSDSCH-Initial-Capacity-Allocation,
    hSDSCH-RNTI
                                                             HSDSCH-RNTI
                                                                                                                                  OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { { Enhanced-FACH-Information-ResponseFDD-ExtIEs } }
                                                                                                                                  OPTIONAL,
Enhanced-FACH-Information-ResponseFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Enhanced-FACH-Support-Indicator ::= NULL
Enhanced-PCH-Capability ::= ENUMERATED {
    enhanced-pch-capable,
    enhanced-pch-not-capable
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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-TFCS-Information ::= SEQUENCE {
    e-DCH-TFCI-Table-Index
                                                             E-DCH-TFCI-Table-Index,
    e-DCH-Min-Set-E-TFCI
                                                     E-TFCI,
    reference-E-TFCI-Information
                                                     Reference-E-TFCI-Information,
                                                     ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
}
E-TFCS-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
{ ID id-E-DCH-Minimum-Set-E-TFCIValidityIndicator CRITICALITY reject EXTENSION E-DCH-Minimum-Set-E-TFCIValidityIndicator
                                                                                                                                      PRESENCE
optional }
    { 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-DCH-Minimum-Set-E-TFCIValidityIndicator ::= ENUMERATED {
    e-DCH-Minimum-Set-E-TFCI-response-not-valid
}
E-TTI ::= ENUMERATED {
    tti10,
    tti2
-- 10ms TTI, 2ms TTI
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
Enhanced-PrimaryCPICH-EcNo
                                  ::= INTEGER (0..49)
EventA ::= SEQUENCE {
                           MeasurementThreshold,
   measurementTreshold
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
   iE-Extensions
                           ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventB ::= SEOUENCE {
                           MeasurementThreshold,
    measurementTreshold
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
                           ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
EventC ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,
   measurementChangeTime
                                MeasurementChangeTime,
                            ProtocolExtensionContainer { {EventC-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
}
EventC-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EventD ::= SEQUENCE {
   measurementIncreaseDecreaseThreshold
                                          MeasurementIncreaseDecreaseThreshold,
   measurementChangeTime
                                MeasurementChangeTime,
                            ProtocolExtensionContainer { {EventD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
}
EventD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventE ::= SEQUENCE {
   measurementThreshold1
                                MeasurementThreshold,
                                MeasurementThreshold
   measurementThreshold2
                                                                 OPTIONAL,
   measurementHysteresisTime MeasurementHysteresisTime
                                                                 OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                        OPTIONAL,
                            ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventF ::= SEQUENCE {
   measurementThreshold1
                                MeasurementThreshold,
    measurementThreshold2
                                MeasurementThreshold
                                                                 OPTIONAL,
    measurementHysteresisTime MeasurementHysteresisTime
                                                                 OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                         OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
    . . .
EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
ExtendedGSMCellIndividualOffset ::= INTEGER (-50..-11 | 11..50)
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-TDD-Information
                                                 E-DCH-TDD-Information.
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }
                                                                                                                         OPTIONAL,
    . . .
3
E-DCH-Information-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-Information ::= SEQUENCE {
    minCR
                                                 CodeRate,
    maxCR
                                                 CodeRate,
    hargInfo
                                                 HARO-Info-for-E-DCH,
    n-E-UCCH
                                                 N-E-UCCH,
                                                 ProtocolExtensionContainer { { E-PUCH-Information-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
E-PUCH-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-TFCS-Information-TDD ::= SEQUENCE {
    e-DCH-OPSK-RefBetaInfo
                                                 E-DCH-QPSK-RefBetaInfo,
    e-DCH-sixteenOAM-RefBetaInfo
                                                 E-DCH-sixteenQAM-RefBetaInfo,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
}
E-TFCS-Information-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-QPSK-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 ::= SEOUENCE {
    e-DCH-MACdFlow-ID
                                                     EDCH-MACdFlow-ID,
    allocationRetentionPriority
                                                     AllocationRetentionPriority,
    tnlOos
                                                     Tnl0os
                                                                                  OPTIONAL,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                  OPTIONAL,
    payloadCRC-PresenceIndicator
                                                     PayloadCRC-PresenceIndicator,
    maximum-Number-of-Retransmissions-For-E-DCH
                                                     MaxNr-Retransmissions-EDCH,
```

```
eDCH-HARQ-PO-TDD
                                                     E-DCH-HARQ-PO-TDD,
    eDCH-MACdFlow-Multiplexing-List
                                                     E-DCH-MACdFlow-Multiplexing-List
                                                                                                             OPTIONAL,
    eDCH-Grant-TypeTDD
                                                     E-DCH-Grant-TypeTDD,
    eDCHLogicalChannelInformation
                                                     E-DCH-LogicalChannelInformation,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-MACdFlow-InfoTDDItem-ExtIEs} }
                                                                                                                                     OPTIONAL.
    . . .
E-DCH-MACdFlow-InfoTDDItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-eDCH-MACdFlow-Retransmission-Timer-LCR CRITICALITY ignore
                                                                             EXTENSION E-DCH-MACdFlow-Retransmission-Timer-LCR
                                                                                                                                     PRESENCE optional
}|
    { ID id-TrafficClass
                                                     CRITICALITY ignore
                                                                             EXTENSION TrafficClass
                                                                                                                                     PRESENCE
mandatory },
    . . .
}
E-DCH-MACdFlow-Retransmission-Timer-LCR ::= 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-HARQ-PO-TDD ::= INTEGER (0..6)
E-DCH-Grant-TypeTDD ::= ENUMERATED {
    scheduled.
    non-scheduled
}
E-DCH-TimeslotResource ::= BIT STRING (SIZE (13))
E-DCH-PowerResource ::= INTEGER(1..32)
TddE-PUCH-Offset ::= INTEGER(0..255)
E-DCH-TDD-Information ::= SEOUENCE {
    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,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-TDD-Information-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
E-DCH-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Maximum-Bitrate ::= INTEGER (0..9201,...)
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
                                                EDCH-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 RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-TDD-Information-to-Modify ::= SEQUENCE e-DCH-TDD-Information-to-Modify-List E-DCH-TDD-Information-to-Modify-List OPTIONAL. mACeReset-Indicator MACeReset-Indicator OPTIONAL. iE-Extensions ProtocolExtensionContainer { { E-DCH-TDD-Information-to-Modify-ExtIEs } } OPTIONAL, . . . E-DCH-TDD-Information-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-ModifyTDDItem E-DCH-MACdFlow-ModifvTDDItem ::= SEOUENCE { e-DCH-MACdFlow-ID EDCH-MACdFlow-ID, allocationRetentionPriority AllocationRetentionPriority OPTIONAL, transportBearerRequestIndicator TransportBearerRequestIndicator, bindingID BindingID OPTIONAL, transportLayerAddress TransportLayerAddress OPTIONAL, tnl0os Tnl0os OPTIONAL, maximum-Number-of-Retransmissions-For-E-DCH MaxNr-Retransmissions-EDCH OPTIONAL, eDCH-HARO-PO-TDD E-DCH-HARQ-PO-TDD OPTIONAL, eDCH-MACdFlow-Multiplexing-List E-DCH-MACdFlow-Multiplexing-List OPTIONAL, eDCH-Grant-TypeTDD E-DCH-Grant-TypeTDD OPTIONAL, E-DCH-LogicalChannelInformation e-DCH-LogicalChannelToAdd OPTIONAL, e-DCH-LogicalChannelToModify E-DCH-LogicalChannelToModify OPTIONAL, e-DCH-LogicalChannelToDelete E-DCH-LogicalChannelToDelete OPTIONAL, ProtocolExtensionContainer { {E-DCH-MACdFlow-ModifyTDDItem-ExtIEs } } OPTIONAL, iE-Extensions . . . E-DCH-MACdFlow-ModifyTDDItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-eDCH-MACdFlow-Retransmission-Timer-LCR EXTENSION E-DCH-MACdFlow-Retransmission-Timer-LCR CRITICALITY ignore PRESENCE optional }| { ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass PRESENCE optional}, . . . 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-HICH-Information-Response E-HICH-InformationResp OPTIONAL, e-DCH-Non-Scheduled-Grant-Info E-DCH-Non-Scheduled-Grant-Info OPTIONAL,

```
e-RNTI
                                                     E-RNTI,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
E-DCH-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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
                                                     EDCH-MACdFlow-ID,
    bindingID
                                                     BindingID
                                                                                  OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress
                                                                                  OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    OPTIONAL,
    . . .
E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-AGCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-ItemTDD
E-AGCH-Specific-InformationResp-ItemTDD ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
                                                     MidambleShiftAndBurstType,
    midambleShiftAndBurstType
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
E-HICH-InformationResp::= SEQUENCE {
    timeslot
                                                     TimeSlot,
                                                     MidambleShiftAndBurstType,
    midambleShiftAndBurstType
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    e-HICH-TimeOffset
                                                     E-HICH-TimeOffset,
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp-ExtIEs } }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
E-HICH-InformationResp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-TimeOffset ::= INTEGER (4..44)
E-DCH-Non-Scheduled-Grant-Info ::= SEQUENCE {
```

```
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-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
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-TDD-Information768
                                                 E-DCH-TDD-Information768,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs} }
                                                                                                                          OPTIONAL.
    . . .
E-DCH-768-Information-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-TDD-Maximum-Bitrate768 ::= INTEGER (0..17713,...)
E-DCH-768-Information-Reconfig ::= SEQUENCE {
    e-PUCH-Information
                                                                                                                       OPTIONAL,
                                                 E-PUCH-Information
    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
                                                 EDCH-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,
                                                 ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs } }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
```

```
E-DCH-768-Information-Reconfig-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
E-DCH-768-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
    e-AGCH-Specific-Information-Response768TDD
                                                     E-AGCH-Specific-InformationRespList768TDD OPTIONAL,
    e-HICH-Information-Response768
                                                     E-HICH-InformationResp768 OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info768
                                                     E-DCH-Non-Scheduled-Grant-Info768 OPTIONAL,
    e-RNTT
                                                     E-RNTI,
                                                     ProtocolExtensionContainer { { E-DCH-768-Information-Response-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-768-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespList768TDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-Item768TDD
E-AGCH-Specific-InformationResp-Item768TDD ::= SEQUENCE
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-Item768TDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-Item768TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
E-HICH-InformationResp768::= SEQUENCE {
                                                     TimeSlot,
    timeslot
                                                     MidambleShiftAndBurstTvpe768,
    midambleShiftAndBurstTvpe768
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    e-HICH-TimeOffset
                                                     E-HICH-TimeOffset,
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp768-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
E-HICH-InformationResp768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-Non-Scheduled-Grant-Info768 ::= SEOUENCE
    timeslotResource
                                                 E-DCH-TimeslotResource.
                                                 E-DCH-PowerResource,
    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-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
E-DCH-LCR-Information ::= SEQUENCE {
    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-LCR-TDD-Information
                                                E-DCH-LCR-TDD-Information,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-DCH-Information-LCR-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
E-DCH-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-PUCH-LCR-Information ::= SEQUENCE {
    minCR
                                                 CodeRate,
   maxCR
                                                 CodeRate,
                                                 HARQ-Info-for-E-DCH,
   harqInfo
    pRxdesBase
                                                 E-PUCH-PRXdesBase,
    e-PUCH-TPC-Step-Size
                                                 TDD-TPC-UplinkStepSize-LCR,
    n-E-UCCH-LCR
                                                N-E-UCCH-LCR,
                                                 ProtocolExtensionContainer { { E-PUCH-Information-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
E-PUCH-Information-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-PUCH-PowerControlGAP
                                        CRITICALITY ignore
                                                                                             PRESENCE optional
                                                                 EXTENSION ControlGAP
                                                                                                                      },
    . . .
E-PUCH-PRXdesBase ::= INTEGER(-112..-50)
--SETP=1
E-DCH-LCR-TDD-Information ::= SEQUENCE {
    e-DCH-Physical-Layer-Category-LCR
                                                 E-DCH-Physical-Layer-Category-LCR
                                                                                                                      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-LCR-TDD-Information-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
E-DCH-LCR-TDD-Information-Extles RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory
                                                                             CRITICALITY reject
                                                                                                                      EXTENSION Extended-E-DCH-LCRTDD-
PhysicalLayerCategory
                                PRESENCE optional }
    -- This IE shall be used if the E-DCH Physical Layer Category has a value larger than 5.
    { ID id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION MaxNr-Retransmissions-
EDCH
                                    PRESENCE optional }|
    { ID id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD
                                                                             CRITICALITY ignore
                                                                                                                      EXTENSION E-DCH-MACdFlow-
Retransmission-Timer-LCR
                                PRESENCE optional },
```

```
. . .
E-DCH-Physical-Layer-Category-LCR ::= INTEGER (1..5)
Extended-E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER (6,...)
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
                                                 EDCH-MACdFlows-To-Delete
                                                                                                                      OPTIONAL,
    e-DCH-LCR-TDD-Information
                                                 E-DCH-LCR-TDD-Information
                                                                                                                      OPTIONAL,
    e-DCH-TDD-Information-to-Modify
                                                 E-DCH-TDD-Information-to-Modify
                                                                                                                      OPTIONAL.
                                                 ProtocolExtensionContainer { { E-DCH-Information-Reconfig-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                               OPTIONAL,
    . . .
E-DCH-Information-Reconfig-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-DCH-LCR-Information-Response ::= SEQUENCE {
    e-DCH-TDD-MACdFlow-Specific-InformationResp
                                                     E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
    e-AGCH-Specific-Information-Response-LCR-TDD
                                                     E-AGCH-Specific-InformationRespList-LCR-TDD OPTIONAL,
    e-HICH-Specific-Information-Response-LCR
                                                     E-HICH-Specific-InformationResp-LCR OPTIONAL,
    e-DCH-Non-Scheduled-Grant-Info-LCR
                                                     E-DCH-Non-Scheduled-Grant-Info-LCR OPTIONAL,
    e-RNTI
                                                     E-RNTI OPTIONAL,
                                                     ProtocolExtensionContainer { { E-DCH-Information-Response-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
E-DCH-Information-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-AGCH-Specific-InformationRespList-LCR-TDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-Item-LCR-TDD
E-AGCH-Specific-InformationResp-Item-LCR-TDD ::= SEQUENCE
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-LCR-ExtIEs } }
    OPTIONAL,
    . . .
E-AGCH-Specific-InformationResp-ItemTDD-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-Specific-InformationResp-LCR::= SEQUENCE {
    e-HICH-Scheduled-InformationResp-LCR
                                                     E-HICH-Scheduled-InformationRespList-LCR-TDD
                                                                                                                      OPTIONAL,
    e-HICH-non-Scheduled-InformationResp-LCR
                                                     E-HICH-InformationResp-LCR
                                                                                                                      OPTIONAL,
```

```
e-HICH-TimeOffset-lcr
                                                     E-HICH-TimeOffset-LCR,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-HICH-Specific-InformationResp-LCR-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
E-HICH-Specific-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-Scheduled-InformationRespList-LCR-TDD ::= SEQUENCE (SIZE (1..maxNrOfEHICHCodes)) OF E-HICH-Scheduled-InformationResp-Item-LCR-TDD
E-HICH-Scheduled-InformationResp-Item-LCR-TDD ::= SEQUENCE {
    e-HICH-EI
                                                 E-HICH-EI,
    e-HICH-Scheduled-InformationResp-LCR
                                                 E-HICH-InformationResp-LCR,
    iE-Extensions
                                                 ProtocolExtensionContainer { { E-HICH-Scheduled-InformationResp-LCR-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
E-HICH-Scheduled-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
E-HICH-EI ::= INTEGER (0..3)
E-HICH-InformationResp-LCR::= SEQUENCE {
    timeSlotLCR
                                                     TimeSlotLCR,
    midambleShiftLCR
                                                     MidambleShiftLCR,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
    signatureSequenceGroupIndex
                                                     SignatureSequenceGroupIndex,
    iE-Extensions
                                                     ProtocolExtensionContainer { { E-HICH-InformationResp-LCR-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
E-HICH-InformationResp-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
E-HICH-TimeOffset-LCR ::= INTEGER (4..15)
E-DCH-SubframeNumber-LCR ::= ENUMERATED{s0,s1}
E-DCH-TimeslotResource-LCR ::= BIT STRING (SIZE (5))
E-DCH-Non-Scheduled-Grant-Info-LCR := SEQUENCE {
    timeslotResource-LCR
                                                 E-DCH-TimeslotResource-LCR,
    powerResource
                                                 E-DCH-PowerResource,
    repetitionPeriod
                                                 RepetitionPeriod,
    repetitionLength
                                                 RepetitionLength,
    subframenumber
                                                 E-DCH-SubframeNumber-LCR,
    tddE-PUCH-Offset
                                                 TddE-PUCH-Offset,
```

```
tdd-ChannelisationCode
                                                TDD-ChannelisationCode,
    iE-Extensions
                                                ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info-LCR-ExtIEs } }
                                                                                                                                 OPTIONAL.
    . . .
E-DCH-Non-Scheduled-Grant-Info-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Enabling-Delay ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128}
-- Unit radio frame
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 [23]
Ext-Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(19983..22978,...)
-- F
FACH-FlowControlInformation ::= SEQUENCE (SIZE (1..16)) OF FACH-FlowControlInformationItem
FACH-FlowControlInformationItem ::= SEQUENCE {
                                    SchedulingPriorityIndicator,
    fACH-SchedulingPriority
    mAC-c-sh-SDU-Lengths
                                    MAC-c-sh-SDU-LengthList,
    fACH-InitialWindowSize
                                    FACH-InitialWindowSize,
                                    ProtocolExtensionContainer { {FACH-FlowControlInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
FACH-FlowControlInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
                                ::= INTEGER { unlimited(255) } (0..255)
FACH-InitialWindowSize
-- Number of frames MAC-c-sh SDUs.
-- 255 = Unlimited number of FACH data frames
FACH-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfFACHs)) OF FACH-InformationItem
FACH-InformationItem ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
                                    ProtocolExtensionContainer { { FACH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
FACH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
Fast-Reconfiguration-Mode ::= ENUMERATED {fast,...}
Fast-Reconfiguration-Permission ::= ENUMERATED {allowed,...}
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
                                        FDD-DCHs-to-ModifySpecificInformationList,
    iE-Extensions
                                        ProtocolExtensionContainer { {FDD-DCHs-to-ModifyItem-ExtIEs} } OPTIONAL,
    . . .
FDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlOos
                                        CRITICALITY
                                                         ignore
                                                                     EXTENSION
                                                                                 TnlQos PRESENCE optional },
    . . .
}
FDD-DCHs-to-ModifySpecificInformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifySpecificItem
FDD-DCHs-to-ModifySpecificItem ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
    ul-TransportformatSet
                                    TransportFormatSet
                                                             OPTIONAL,
    dl-TransportformatSet
                                    TransportFormatSet
                                                             OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority
                                                                     OPTIONAL,
    frameHandlingPriority
                                     FrameHandlingPriority
                                                                 OPTIONAL,
    not-Used-dRACControl
                                                NULL
                                                             OPTIONAL,
                                     ProtocolExtensionContainer { {FDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
FDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                                         EXTENSION Guaranteed-Rate-Information
      ID id-Guaranteed-Rate-Information
                                                                                                                     PRESENCE optional }
                                                CRITICALITY ignore
      ID id-TrafficClass
                                                CRITICALITY ignore
                                                                         EXTENSION TrafficClass
                                                                                                                      PRESENCE optional }
     ID id-Unidirectional-DCH-Indicator
                                                CRITICALITY reject
                                                                                                                      PRESENCE optional },
                                                                         EXTENSION Unidirectional-DCH-Indicator
    . . .
FDD-DL-ChannelisationCodeNumber
                                    ::= INTEGER (0..511)
-- According to the mapping in [27]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
    dl-ScramblingCode
                                                                 DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                                                 FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-ScramblingCode-Information
                                                                         Transmission-Gap-Pattern-Sequence-ScramblingCode-Information OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {FDD-DL-CodeInformationItem-ExtIEs} } OPTIONAL,
```

```
. . .
}
FDD-DL-CodeInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
    . . .
۱
SchedulingPriorityIndicator
                                       ::= INTEGER { lowest(0), highest(15) } (0..15)
F-DPCH-SlotFormat ::= INTEGER (0..9)
F-DPCH-SlotFormatSupportRequest ::= NULL
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS
}
FNReportingIndicator ::= ENUMERATED {
    fN-reporting-required,
    fN-reporting-not-required
}
FPACH-Information ::= SEQUENCE {
    timeSlotLCR
                                TimeSlotLCR,
    tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
   midambleShiftLCR
                               MidambleShiftLCR,
    wΤ
                                INTEGER (1..4),
    . . .
    }
                           ::= INTEGER { lowest(0), highest(15) } (0..15)
FrameHandlingPriority
FrameOffset
                        ::= INTEGER (0..255)
-- Frames
FrequencyBandIndicator := ENUMERATED {
    bandI,
   bandII,
    bandIII,
    bandIV,
    bandV,
    bandVI,
    bandVII,
    bandVIII,
    bandIX,
```

bandX, bandXI, bandXII, bandXIII, bandXIV, bandXV, bandXVI, bandXVII, bandXVIII, bandXIX, bandXX, bandXXI, bandXXII, . . . J -- G GapLength ::= INTEGER (1..14) -- Unit Slot GapDuration ::= INTEGER (1..144,...) -- Unit Frame GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF SEQUENCE { cell-GAIgeographicalCoordinate GeographicalCoordinate, iE-Extensions ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL, . . . ٦ GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . l GA-CellAdditionalShapes ::= CHOICE { pointWithUncertainty GA-PointWithUnCertainty, pointWithUncertaintyEllipse GA-PointWithUnCertaintyEllipse, pointWithAltitude GA-PointWithAltitude, pointWithAltitudeAndUncertaintyEllipsoid GA-PointWithAltitudeAndUncertaintyEllipsoid, ellipsoidArc GA-EllipsoidArc, . . . } GA-AltitudeAndDirection ::= SEQUENCE { directionOfAltitude ENUMERATED {height, depth}, altitude INTEGER (0..32767), . . . } GA-EllipsoidArc ::= SEQUENCE { geographicalCoordinates GeographicalCoordinate, innerRadius INTEGER (0..65535),

```
uncertaintyRadius
                                 INTEGER (0..127),
    offsetAngle
                                INTEGER (0..179),
    includedAngle
                                INTEGER (0..179),
                                INTEGER (0..127),
    confidence
    iE-Extensions
                                ProtocolExtensionContainer { { GA-EllipsoidArc-ExtIEs } } OPTIONAL,
    . . .
GA-EllipsoidArc-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Almanac ::= SEQUENCE {
    ganss-wk-number
                                     INTEGER(0..255),
    gANSS-AlmanacModel
                                     CHOICE {
        gANSS-keplerianParameters
                                         SEOUENCE {
            t-oa
                                             INTEGER(0..255),
            iod-a
                                             INTEGER(0..3),
            qANSS-SatelliteInformationKP
                                             GANSS-SatelliteInformationKP,
                                             ProtocolExtensionContainer { { GANSS-KeplerianParametersAlm-ExtIEs } } OPTIONAL,
            ie-Extensions
            . . .
        },
        . . .
    },
    ie-Extensions
                                     ProtocolExtensionContainer { { GANSS-Almanac-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
GANSS-KeplerianParametersAlm-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF 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,
                                         ProtocolExtensionContainer { { GANSS-ClockModelItem-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
```

```
GANSS-ClockModelItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
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,
    . . .
٦
GANSS-Common-Data-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-CommonDataInfoReg ::= SEQUENCE {
    ionospheric-Model
                                         BOOLEAN
                                                                                                                        OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-CommonDataInfoReq-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
GANSS-CommonDataInfoReg-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
GANSS-Data-Bit-Assistance ::= SEQUENCE {
    ganssTod
                                         INTEGER (0..59,...),
    dataBitAssistancelist
                                         GANSS-DataBitAssistanceList,
                                         ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ExtIEs } }
                                                                                                                        OPTIONAL,
    ie-Extensions
    . . .
GANSS-Data-Bit-Assistance-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem
GANSS-DataBitAssistanceItem ::= SEQUENCE {
    satId
                                     INTEGER(0..63),
    dataBitAssistanceSgnList
                                     GANSS-DataBitAssistanceSgnList,
    ie-Extensions
                                     ProtocolExtensionContainer { { GANSS-DataBitAssistanceItem-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
GANSS-DataBitAssistanceItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-DataBitAssistanceSgnList ::= SEQUENCE (SIZE (1..maxSgnType)) OF GANSS-DataBitAssistanceSgnItem
```

```
GANSS-DataBitAssistanceSqnItem ::= SEQUENCE {
    ganss-SignalId
                            GANSS-Signal-ID,
    ganssDataBits
                            BIT STRING (SIZE (1..1024)),
    ie-Extensions
                            ProtocolExtensionContainer { { GANSS-DataBitAssistanceSqnItem-ExtIEs } }
                                                                                                                       OPTIONAL.
    . . .
}
GANSS-DataBitAssistanceSqnItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-Data-Bit-Assistance-ReqItem ::= SEQUENCE {
                                             INTEGER (0..86399),
    ganssTod
    ganss-Data-Bit-Assistance-RegList
                                             GANSS-Data-Bit-Assistance-ReqList,
    iE-Extensions
                                             ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-RegItem-ExtIEs } } OPTIONAL,
    . . .
J
GANSS-Data-Bit-Assistance-Regitem-Extles RNSAP-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-ExtIEs } } OPTIONAL,
    . . .
GANSS-Data-Bit-Assistance-ReqList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-GenericDataInfoReqList ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-GenericDataInfoReqItem
GANSS-GenericDataInfoRegItem ::= 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,
                                                 BOOLEAN
    ganss-Almanac
                                                                                                                            OPTIONAL,
    ganss-Real-Time-Integrity
                                                 BOOLEAN
                                                                                                                            OPTIONAL,
                                                 GANSS-Data-Bit-Assistance-ReqItem
    ganss-Data-Bit-Assistance-Req
                                                                                                                            OPTIONAL,
                                                 ProtocolExtensionContainer { { GANSS-GenericDataInfoRegItem-ExtIEs } }
    ie-Extensions
                                                                                                                            OPTIONAL,
    . . .
```

GANSS-GenericDataInfoReqItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=

. . .

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GANSS-Generic-Data ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-Generic-DataItem

```
GANSS-Generic-DataItem ::= SEQUENCE {
    ganss-Id
                                                 GANSS-ID
                                                                                                                             OPTIONAL,
    dganss-Correction
                                                 DGANSSCorrections
                                                                                                                             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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GANSS-ID ::= INTEGER(0...7,...)
GANSS-Information ::= SEQUENCE {
    qANSS-CommonDataInfoReq
                                         GANSS-CommonDataInfoReq
                                                                                                                       OPTIONAL,
    gANSS-GenericDataInfoRegList
                                         GANSS-GenericDataInfoRegList
                                                                                                                       OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Information-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
GANSS-Information-ExtIEs RNSAP-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)),
    qANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags
                                                                                                                        OPTIONAL,
                                         ProtocolExtensionContainer { { GANSS-Ionospheric-Model-ExtIEs } }
    ie-Extensions
                                                                                                                        OPTIONAL,
    . . .
GANSS-Ionospheric-Model-ExtIEs RNSAP-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,
```

```
ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
    . . .
3
GANSS-IonosphereRegionalStormFlags-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Orbit-Model ::= CHOICE {
    gANSS-keplerianParameters
                                         SEOUENCE {
        toe-nav
                                             BIT STRING (SIZE (14)),
        ganss-omega-nav
                                             BIT STRING (SIZE (32)),
        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)),
                                             BIT STRING (SIZE (32)),
        omega-zero-nav
        c-rs-nav
                                             BIT STRING (SIZE (16)),
        c-is-nav
                                             BIT STRING (SIZE (16)),
        c-us-nav
                                             BIT STRING (SIZE (16)),
        c-rc-nav
                                             BIT STRING (SIZE (16)),
        c-ic-nav
                                             BIT STRING (SIZE (16)),
                                             BIT STRING (SIZE (16)),
        c-uc-nav
                                             ProtocolExtensionContainer { { GANSS-KeplerianParametersOrb-ExtIEs } }
        ie-Extensions
                                                                                                                         OPTIONAL,
        . . .
    },
    . . .
}
```

GANSS-KeplerianParametersOrb-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=

. . .

}

```
GANSS-Real-Time-Integrity ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
    bad-ganss-satId
                                         INTEGER(0..63),
    bad-ganss-signalId
                                         BIT STRING(SIZE(8))
                                                                                                                       OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-RealTimeInformationItem-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
3
GANSS-RealTimeInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-RX-Pos ::= SEQUENCE {
    latitudeSign
                            ENUMERATED {north, south},
    degreesOfLatitude
                            INTEGER(0..2147483647),
    degreesOfLongitude
                            INTEGER(-2147483648..2147483647),
    directionOfAltitude
                            ENUMERATED { height, depth },
    altitude
                            INTEGER(0..32767),
                            ProtocolExtensionContainer { { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
    ie-Extensions
    . . .
GANSS-RX-Pos-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-SatelliteInformationKP ::= SEQUENCE (SIZE (1..maxGANSSSatAlmanac)) OF SEQUENCE {
    satId
                                         INTEGER(0..63),
    ganss-e-alm
                                         BIT STRING (SIZE (11)),
    ganss-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)),
                                         ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
    ie-Extensions
    . . .
}
GANSS-SatelliteInformationKPItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GANSS-Sat-Info-Nav ::= SEQUENCE (SIZE(1..maxGANSSSat)) OF SEQUENCE {
    satId
                                INTEGER(0..63),
                                BIT STRING (SIZE(5)),
    svHealth
```

```
iod
                                 BIT STRING (SIZE(10)),
    ganssClockModel
                                 GANSS-Clock-Model,
    ganssOrbitModel
                                 GANSS-Orbit-Model,
    ie-Extensions
                                 ProtocolExtensionContainer { { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL,
    . . .
۱
GANSS-Sat-Info-Nav-ExtIEs RNSAP-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,
                                         ENUMERATED {gps,...},
    qnss-to-id
    ganss-wk-number
                                         INTEGER(0..8191)
                                                                                                                        OPTIONAL,
    ie-Extensions
                                         ProtocolExtensionContainer { { GANSS-Time-Model-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
}
GANSS-Time-Model-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
}
```

```
GANSS-UTC-Model ::= SEQUENCE {
                                        BIT STRING (SIZE (24)),
    a-one-utc
    a-zero-utc
                                        BIT STRING (SIZE (32)),
    t-ot-utc
                                        BIT STRING (SIZE (8)),
                                        BIT STRING (SIZE (8)),
    w-n-t-utc
    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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithAltitude ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    iE-Extensions
                                ProtocolExtensionContainer { { GA-PointWithAltitude-ExtIEs } } OPTIONAL,
    . . .
GA-PointWithAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    uncertaintyAltitude
                                INTEGER (0..127),
                                INTEGER (0..127),
    confidence
                                ProtocolExtensionContainer { { GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithUnCertaintyEllipse ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    confidence
                                INTEGER (0..127),
                                ProtocolExtensionContainer { { GA-PointWithUnCertaintyEllipse-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
```

```
GA-PointWithUnCertaintyEllipse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
GA-UncertaintyEllipse ::= SEQUENCE {
    uncertaintySemi-major
                                 INTEGER (0..127),
    uncertaintySemi-minor
                                 INTEGER (0..127),
    orientationOfMajorAxis
                                 INTEGER (0..179),
                                                     -- The values 90..179 shall not be used.
    . . .
}
GA-PointWithUnCertainty ::=SEQUENCE {
                                 GeographicalCoordinate,
    geographicalCoordinates
    uncertaintyCode
                       INTEGER (0..127),
    iE-Extensions
                            ProtocolExtensionContainer { {GA-PointWithUnCertainty-ExtIEs} } OPTIONAL,
    . . .
3
GA-PointWithUnCertainty-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-AccessPointPosition ::= SEQUENCE {
    geographicalCoordinate
                                 GeographicalCoordinate,
    iE-Extensions ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
    . . .
}
GA-AccessPoint-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GeographicalCoordinate ::= SEQUENCE {
    latitudeSign ENUMERATED { north, south },

        latitude
        INTEGER (0..8388607),

        longitude
        INTEGER (-8388608..8388607),

    iE-Extensions ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
    . . .
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GERAN-Cell-Capability ::= BIT STRING (SIZE (16))
-- First bit: A/Gb mode --
-- Second bit: Iu mode --
-- Note: undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. --
GERAN-Classmark ::=
                             OCTET STRING
    -- GERAN Classmark as defined in (38) --
GERAN-SI-Type ::= CHOICE {
    sI
                                 GERAN-SystemInfo,
                                 GERAN-SystemInfo,
    pSI
```

```
. . .
}
GERAN-SystemInfo ::= SEQUENCE (SIZE (1..maxNrOfGERANSI)) OF
        SEQUENCE {
           gERAN-SI-block
                                OCTET STRING (SIZE (1..23)),
           iE-Extensions
                                ProtocolExtensionContainer { { GERAN-SystemInfo-ExtIEs } }
                                                                                                 OPTIONAL.
            . . .
}
GERAN-SystemInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GenericTrafficCategory ::= BIT STRING (SIZE (8))
GPS-Almanac ::= SEQUENCE {
    wn<sub>a</sub>-alm
                            BIT STRING (SIZE (8)),
    satellite-Almanac-Information
                                        SEQUENCE (SIZE (1..maxNoSat)) OF
        SEOUENCE {
           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)),
            gps-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 { { Satellite-Almanac-Information-ExtIEs } }
                                                                                                           OPTIONAL,
            . . .
       },
    -- This GPS-Almanac-Information is for the 1<sup>st</sup> 16 satellites
    sVGlobalHealth-alm BIT STRING (SIZE (364))
                                                        OPTIONAL,
                            ProtocolExtensionContainer { { GPS-Almanac-ExtIEs } }
    iE-Extensions
                                                                                        OPTIONAL,
    . . .
}
Satellite-Almanac-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Satellite-Almanac-Information-ExtItem CRITICALITY ignore
                                                                         EXTENSION Satellite-Almanac-Information-ExtItem
                                                                                                                                      PRESENCE
   optional},
    . . .
}
Satellite-Almanac-Information-ExtItem ::= SEQUENCE (SIZE (1..maxNrOfSatAlmanac-maxNoSat)) OF
        SEQUENCE {
```

}

```
dATA-ID
                                DATA-ID,
            sAT-ID
                                SAT-ID,
            gps-e-alm
                                BIT STRING (SIZE (16)),
            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 { { Satellite-Almanac-Information-ExtItemIEs } }
                                                                                                                OPTIONAL,
            . . .
    Includes the GPS-Almanac-Information for the 17th through 32nd satellites.
Satellite-Almanac-Information-ExtItemIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPSInformation ::= SEQUENCE (SIZE (1..maxNoGPSTypes)) OF
    SEOUENCE
                                ENUMERATED {
        qPSInformationItem
            gPS-NavigationModel-and-TimeRecovery,
            qPS-Ionospheric-Model,
            qPS-UTC-Model,
            gPS-Almanac,
            gPS-RealTime-Integrity,
            . . .
        },
        iE-Extensions
                                ProtocolExtensionContainer { { GPSInformation-ExtIEs } }
                                                                                              OPTIONAL,
        . . .
-- This IE shall be present if the Information Type IE indicates 'GPS Information'
GPSInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
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)),
                            ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
    iE-Extensions
                                                                                                  OPTIONAL,
    . . .
```

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GPS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

}

}

. . .

GPS-NavigationModel-and-TimeRecovery ::= SEOUENCE (SIZE (1..maxNoSat)) OF SEQUENCE { tx-tow-nav INTEGER (0..1048575), sAT-ID 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-NavigationModel-and-TimeRecoveryItem-ExtIEs } } OPTIONAL, . . . GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . GPS-RealTime-Integrity ::= CHOICE { badSatellites BadSatellites, noBadSatellite NULL

```
GPS-RX-POS ::= SEQUENCE {
    geographicalCoordinate
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    iE-Extensions
                                ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs } } OPTIONAL,
    . . .
GPS-RX-POS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
  udre-1-0.
  udre-0-75,
  udre-0-5,
  udre-0-3,
  udre-0-1,
  no-data,
  invalid-data
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
    a-one-utc
                BIT STRING (SIZE (24)),
    a-zero-utc
                           BIT STRING (SIZE (32)),
    t-ot-utc
                         BIT STRING (SIZE (8)),
    delta-t-ls-utc
                         BIT STRING (SIZE (8)),
    w-n-t-utc
                           BIT STRING (SIZE (8)),
    w-n-lsf-utc
                          BIT STRING (SIZE (8)),
    dn-utc
                         BIT STRING (SIZE (8)),
                      BIT STRING (SIZE (8)),
Protocol
    delta-t-lsf-utc
    iE-Extensions
                           ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs } }
                                                                                        OPTIONAL,
    . . .
GPS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Guaranteed-Rate-Information ::= SEQUENCE {
    guaranteed-UL-Rate
                                Guaranteed-Rate OPTIONAL,
    quaranteed-DL-Rate
                                Guaranteed-Rate OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { {Guaranteed-Rate-Information-ExtIEs} } OPTIONAL,
    . . .
}
Guaranteed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Guaranteed-Rate
                     ::= INTEGER (1..maxNrOfTFs)
-- "1": TFI 0, "2": TFI 1, "3": TFI 2, ...
```

```
-- H
HARO-Info-for-E-DCH ::= ENUMERATED {
    rv0.
    rvtable
}
HARQ-MemoryPartitioning ::= CHOICE {
    implicit
                    HARQ-MemoryPartitioning-Implicit,
    explicit
                    HARQ-MemoryPartitioning-Explicit,
    . . .
    }
HARO-MemoryPartitioning-Implicit := SEQUENCE {
    number-of-Processes INTEGER (1..8,...,12|14|16),
                                ProtocolExtensionContainer { { HARO-MemoryPartitioning-Implicit-ExtIEs } }
    iE-Extensions
                                                                                                                 OPTIONAL,
    . . .
}
HARQ-MemoryPartitioning-Implicit-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HARQ-MemoryPartitioning-Explicit
                                  ::= SEQUENCE {
    hARQ-MemoryPartitioningList
                                        HARQ-MemoryPartitioningList,
    iE-Extensions
                                        ProtocolExtensionContainer { { HARO-MemoryPartitioning-Explicit-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
}
HARO-MemoryPartitioning-Explicit-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-HARQ-MemoryPartitioningInfoExtForMIMO
                                                   CRITICALITY ignore EXTENSION HARQ-MemoryPartitioningInfoExtForMIMO PRESENCE optional},
    . . .
}
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-MemoryPartitioningItem
HARO-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4/6/8)) OF HARO-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 { { HARQ-MemoryPartitioningItem-ExtIEs } }
    iE-Extensions
                                                                                                                     OPTIONAL,
    . . .
HARO-MemoryPartitioningItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HARQ-Preamble-Mode ::= ENUMERATED {
   mode0,
   mode1
HARO-Process-Allocation-2ms-EDCH ::= BIT STRING ( SIZE (maxNrOfEDCHHAROProcesses2msEDCH) )
HARO-Preamble-Mode-Activation-Indicator ::=ENUMERATED
    hargPreambleModeSupported
HCS-Prio := INTEGER (0..7)
-- 0 = lowest priority, ...7 = highest priority
HSDSCH-Configured-Indicator ::= ENUMERATED {
    configured-HS-DSCH,
    no-configured-HS-DSCH
}
HSDSCH-FDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlows-Information
                                                 HSDSCH-MACdFlows-Information,
    uE-Capabilities-Info
                                                 UE-Capabilities-Info,
    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 IE is set to a value greater than 0.
    ackNackRepetitionFactor
                                                 AckNack-RepetitionFactor,
    cqiPowerOffset
                                                 COI-Power-Offset,
    ackPowerOffset
                                                Ack-Power-Offset,
    nackPowerOffset
                                                 Nack-Power-Offset,
    hsscch-PowerOffset
                                                HSSCCH-PowerOffset
                                                                                             OPTIONAL,
    iE-Extensions
                                                 ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
HSDSCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 ID id-HARO-Preamble-Mode
                                            CRITICALITY ignore
                                                                                 HARO-Preamble-Mode
                                                                                                                      PRESENCE optional }
                                                                     EXTENSION
                                                                                                                      PRESENCE optional }
 ID id-MIMO-ActivationIndicator
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 MIMO-ActivationIndicator
 ID id-HSDSCH-MACdPDUSizeFormat
                                            CRITICALITY reject
                                                                     EXTENSION
                                                                                 HSDSCH-MACdPDUSizeFormat
                                                                                                                      PRESENCE optional }
 ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore
                                                                     EXTENSION
                                                                                 SixtyfourQAM-UsageAllowedIndicator PRESENCE optional },
    . . .
HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-Response
                                                     HSDSCH-MACdFlow-Specific-InfoList-Response
                                                                                                                                     OPTIONAL,
    hSSCCH-Specific-InfoList-Response
                                                     HSSCCH-FDD-Specific-InfoList-Response
                                                                                                                                     OPTIONAL,
```

hSPDSCH-and-HSSCCH-ScramblingCode measurement-Power-Offset hARQ-MemoryPartitioning iE-Extensions 	DL-ScramblingCode Measurement-Power-Offset HARQ-MemoryPartitioning ProtocolExtensionContainer { { HSDSCH-FDD-Info	OPTIONAL, OPTIONAL, OPTIONAL, ormation-Response-ExtIEs } } OPTIONAL,
HSDSCH-FDD-Information-Response-ExtIEs RNSAP-PROTO { ID id-User-Plane-Congestion-Fields-Inclusion { ID id-HARQ-Preamble-Mode-Activation-Indicator { ID id-MIMO-InformationResponse { ID id-SixtyfourQAM-DL-UsageIndicator { ID id-HSDSCH-TBSizeTableIndicator	DCOL-EXTENSION ::= { CRITICALITY ignore EXTENSION User-Plane-Conge CRITICALITY ignore EXTENSION HARQ-Preamble-Mc CRITICALITY ignore EXTENSION MIMO-Information CRITICALITY ignore EXTENSION SixtyfourQAM-DL- CRITICALITY ignore EXTENSION HSDSCH-TBSizeTab	bde-Activation-Indicator PRESENCE optional    nResponse PRESENCE optional    -UsageIndicator PRESENCE optional
<pre>} HSDSCH-Information-to-Modify ::= SEQUENCE {     hSDSCH-MACdFlow-Specific-InfoList-to-Modify     priorityQueue-Info-to-Modify     mAChs-Reordering-Buffer-Size-for-RLC-UM     cqiFeedback-CycleK     cqiRepetitionFactor     ackNackRepetitionFactor     cqiPowerOffset     ackPowerOffset     hsscch-PowerOffset     hsSCCH-CodeChangeGrant     tDDAckNackPowerOffset     iE-Extensions  }</pre>	HSDSCH-MACdFlow-Specific-InfoList-to-Modify PriorityQueue-InfoList-to-Modify MAChsReorderingBufferSize-for-RLC-UM CQI-Feedback-Cycle CQI-RepetitionFactor AckNack-RepetitionFactor CQI-Power-Offset Ack-Power-Offset Nack-Power-Offset HSSCCH-PowerOffset HSSCCH-Code-Change-Grant TDD-AckNack-Power-Offset ProtocolExtensionContainer { { HSDSCH-Informat	OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL, For FDD only OPTIONAL, For TDD only
{ ID id-HSDSCH-MACdPDUSizeFormat CRITIC { ID id-SixtyfourQAM-UsageAllowedIndicator CRITIC	TY ignore EXTENSION HARQ-Preamble-Mode TY ignore EXTENSION HS-PDSCH-Code-Change-G CALITY reject EXTENSION MIMO-Mode-Indicato CALITY reject EXTENSION HSDSCH-MACdPDUSize	or PRESENCE optional}  eFormat PRESENCE optional}  eAllowedIndicator PRESENCE optional}
<pre>HSDSCH-Information-to-Modify-Unsynchronised ::= SH hSDSCH-MACdFlow-Specific-InfoList-to-Modify priorityQueueInfotoModifyUnsynchronised cqiPowerOffset ackPowerOffset hsscch-PowerOffset tDDAckNackPowerOffset</pre>	HSDSCH-MACdFlow-Specific-InfoList-to-Modify PriorityQueue-InfoList-to-Modify-Unsynchronise CQI-Power-Offset OPTIONAL, Ack-Power-Offset OPTIONAL, Nack-Power-Offset OPTIONAL, HSSCCH-PowerOffset OPTIONAL,	OPTIONAL, ed OPTIONAL, - For FDD only - For FDD only - For FDD only - Only for FDD - For TDD only

```
ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 ID id-HARO-Preamble-Mode
                                            CRITICALITY ignore
                                                                    EXTENSION HARO-Preamble-Mode
                                                                                                                     PRESENCE optional } |
                                            CRITICALITY reject
 ID id-MIMO-Mode-Indicator
                                                                    EXTENSION MIMO-Mode-Indicator
                                                                                                                    PRESENCE optional }
{ ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore
                                                                    EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional},
    . . .
HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
HSDSCH-MACdFlow-Specific-InfoList := SEOUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem
HSDSCH-MACdPDUSizeFormat ::= ENUMERATED {
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
}
HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hSDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    trafficClass
                                        TrafficClass,
    bindingID
                                        BindingID
                                                                                 OPTIONAL.
    transportLayerAddress
                                        TransportLayerAddress
                                                                                 OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                            CRITICALITY ignore
                                                    EXTENSION TnlQos PRESENCE optional } |
    {ID id-TrCH-SrcStatisticsDescr CRITICALITY iqnore EXTENSION TrCH-SrcStatisticsDescr PRESENCE optional },
    . . .
HSDSCH-MACdFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (0..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-Response
HSDSCH-MACdFlow-Specific-InfoItem-Response ::= SEQUENCE
    hSDSCH-MACdFlow-ID
                                        HSDSCH-MACdFlow-ID,
    bindingID
                                        BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                                 OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation HSDSCH-Initial-Capacity-Allocation
                                                                                OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
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.
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    trafficClass
                                        TrafficClass
                                                                                 OPTIONAL.
    bindingID
                                        BindingID
                                                                                 OPTIONAL,
    transportLayerAddress
                                        TransportLayerAddress
                                                                                 OPTIONAL,
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-TnlOos
                            CRITICALITY ignore
                                                     EXTENSION ThlOos PRESENCE optional },
    . . .
}
HSDSCH-MACdFlows-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info
                                                     HSDSCH-MACdFlow-Specific-InfoList,
                                                     PriorityOueue-InfoList,
    priorityOueue-Info
                                                     ProtocolExtensionContainer { { HSDSCH-MACdFlows-Information-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
HSDSCH-MACdFlows-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
}
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,
   iE-Extensions
                                        ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
HSDSCH-MACdFlows-to-Delete-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSDSCH-Initial-Capacity-Allocation::= SEQUENCE (SIZE (1..maxNrOfPrioQueues)) OF HSDSCH-Initial-Capacity-AllocationItem
HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator
                                    SchedulingPriorityIndicator,
    maximum-MACdPDU-Size
                                    MACdPDU-Size,
    hSDSCH-InitialWindowSize
                                    HSDSCH-InitialWindowSize,
    iE-Extensions
                                    ProtocolExtensionContainer { {HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
    . . .
HSDSCH-Initial-Capacity-AllocationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended
                                        CRITICALITY ignore
                                                                EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
    . . .
```

```
HSDSCH-InitialWindowSize
                                     ::= INTEGER (1..255)
-- Number of MAC-d PDUs.
HSDSCH-RNTI := INTEGER (0..65535)
HS-DSCH-serving-cell-change-information ::= SEQUENCE {
    hS-PDSCH-RLID
                                RL-ID,
                                HSDSCH-FDD-Information
    hSDSCH-FDD-Information
                                                                                                                      OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { { HS-DSCH-serving-cell-change-information-ExtIEs } }
                                                                                                                      OPTIONAL,
    . . .
}
HS-DSCH-serving-cell-change-information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information CRITICALITY reject EXTENSION Continuous-Packet-Connectivity-HS-SCCH-Less-
                PRESENCE optional },
Information
    . . .
HS-DSCH-serving-cell-change-informationResponse ::= SEQUENCE {
                                    HS-DSCH-serving-cell-change-choice,
    hS-DSCH-serving-cell-choice
    iE-Extensions
                                    ProtocolExtensionContainer { { HS-DSCH-serving-cell-change-informationResponse-ExtIEs } } OPTIONAL,
    . . .
HS-DSCH-serving-cell-change-informationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HS-DSCH-serving-cell-change-choice ::= CHOICE {
    hS-serving-cell-change-successful
                                             HS-serving-cell-change-successful,
    hS-serving-cell-change-unsuccessful
                                            HS-serving-cell-change-unsuccessful,
    . . .
HSDSCH-TBSizeTableIndicator ::= ENUMERATED {
    octet-aligned
}
HS-serving-cell-change-successful ::= SEQUENCE {
    hSDSCH-FDD-Information-Response
                                        HSDSCH-FDD-Information-Response,
    hSDSCH-RNTI
                                        HSDSCH-RNTI,
                                         ProtocolExtensionContainer { { HS-serving-cell-change-successful-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
HS-serving-cell-change-successful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response
                                                                             CRITICALITY ignore EXTENSION Continuous-Packet-Connectivity-HS-SCCH-
Less-Information-Response
                                PRESENCE optional },
    . . .
```

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HS-serving-cell-change-unsuccessful ::= SEQUENCE { cause Cause. iE-Extensions ProtocolExtensionContainer { { HS-serving-cell-change-unsuccessful-ExtIEs } } OPTIONAL, . . . HS-serving-cell-change-unsuccessful-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . 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 HSDSCH-TDD-Information ::= SEQUENCE { hSDSCH-MACdFlows-Information HSDSCH-MACdFlows-Information, uE-Capabilities-Info UE-Capabilities-Info, mAChs-Reordering-Buffer-Size-for-RLC-UM MAChsReorderingBufferSize-for-RLC-UM, tDD-AckNack-Power-Offset TDD-AckNack-Power-Offset, iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } } OPTIONAL, . . . HSDSCH-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ID id-HSDSCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional } { ID id-HSSICH-SIRTarget CRITICALITY ignore PRESENCE optional } EXTENSION UL-SIR -- Applicable to 1.28Mcps TDD only { ID id-HSSICH-TPC-StepSize PRESENCE optional } | CRITICALITY ignore EXTENSION TDD-TPC-UplinkStepSize-LCR -- Mandatory for 1.28Mcps TDD only { ID id-tSN-Length CRITICALITY reject EXTENSION TSN-Length PRESENCE optional }, -- Applicable for 1.28Mcps TDD when using multiple frequencies HSDSCH-TDD-Information-Response ::= SEQUENCE { hSDSCH-MACdFlow-Specific-InfoList-Response HSDSCH-MACdFlow-Specific-InfoList-Response OPTIONAL, hSSCCH-TDD-Specific-InfoList-Response HSSCCH-TDD-Specific-InfoList-Response OPTIONAL, -- Not Applicable to 1.28Mcps TDD hSSCCH-TDD-Specific-InfoList-Response-LCR HSSCCH-TDD-Specific-InfoList-Response-LCR OPTIONAL, -- Not Applicable to 3.84Mcps TDD or 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 hSPDSCH-TDD-Specific-InfoList-Response HSPDSCH-TDD-Specific-InfoList-Response OPTIONAL, hSPDSCH-TDD-Specific-InfoList-Response-LCR HSPDSCH-TDD-Specific-InfoList-Response-LCR OPTIONAL, HARO-MemoryPartitioning hARO-MemoryPartitioning OPTIONAL, -- For 1.28Mcps TDD, this HARQ Memory Partitioning Information is for the first Frequency repetition, HARQ Memory Partitioning Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR iE-Extensions ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtlEs } } OPTIONAL,

```
}
HSDSCH-TDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-User-Plane-Congestion-Fields-Inclusion
                                                                 CRITICALITY ignore EXTENSION User-Plane-Congestion-Fields-Inclusion
    PRESENCE optional } |
{ ID id-hSSCCH-TDD-Specific-InfoList-Response768
                                                                 CRITICALITY ignore EXTENSION HSSCCH-TDD-Specific-InfoList-Response768
    PRESENCE optional } |
{ ID id-hSPDSCH-TDD-Specific-InfoList-Response768
                                                                 CRITICALITY ignore EXTENSION HSPDSCH-TDD-Specific-InfoList-Response768
    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 MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR is the HS-SCCH and HARQ
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
    . . .
Multicarrier-Number ::= INTEGER (1..maxHSDPAFrequency)
HSPDSCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF HSPDSCH-TDD-Specific-InfoItem-Response
HSPDSCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
                                                     ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSPDSCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF HSPDSCH-TDD-Specific-InfoItem-Response-LCR
HSPDSCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR
                                                TimeSlotLCR,
    midambleShiftLCR
                                                MidambleShiftLCR,
                                                ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSPDSCH-TDD-Specific-InfoList-Response768 ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF HSPDSCH-TDD-Specific-InfoItem-Response768
```

```
HSPDSCH-TDD-Specific-InfoItem-Response768 ::= SEQUENCE {
    timeslot
                                                     TimeSlot.
                                                     MidambleShiftAndBurstType768,
    midambleShiftAndBurstType768
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-768-ExtIEs } }
    OPTIONAL,
    . . .
HSPDSCH-TDD-Specific-InfoItem-Response-768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-FDD-Specific-InfoList-Response ::= SEOUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-FDD-Specific-InfoItem-Response
HSSCCH-FDD-Specific-InfoItem-Response ::= SEQUENCE {
    code-Number
                                                     INTEGER (0..127),
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-FDD-Specific-InfoItem-Response-ExtlEs } }
    OPTIONAL,
    . . .
3
HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
HSSCCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response
HSSCCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot
                                                     TimeSlot,
                                                     MidambleShiftAndBurstType,
    midambleShiftAndBurstType
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
   hSSICH-Info
                                                     HSSICH-Info,
    iE-Extensions
                                                     ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    . . .
HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response-LCR
HSSCCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR
                                                 TimeSlotLCR.
    midambleShiftLCR
                                                 MidambleShiftLCR,
    first-TDD-ChannelisationCode
                                                 TDD-ChannelisationCode,
    second-TDD-ChannelisationCode
                                            TDD-ChannelisationCode,
    hSSICH-InfoLCR
                                                 HSSICH-InfoLCR,
```

```
ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    iE-Extensions
    OPTIONAL.
    . . .
HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
HSSCCH-TDD-Specific-InfoList-Response768 ::= SEQUENCE (SIZE (0..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response768
HSSCCH-TDD-Specific-InfoItem-Response768 ::= SEQUENCE {
    timeslot
                                                     TimeSlot.
    midambleShiftAndBurstType768
                                                     MidambleShiftAndBurstType768,
    tDD-ChannelisationCode768
                                                     TDD-ChannelisationCode768,
    hSSICH-Info768
                                                     HSSICH-Info768,
                                                     ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response768-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
3
HSSCCH-TDD-Specific-InfoItem-Response768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
HSSICH-Info ::= SEQUENCE {
    hsSICH-ID
                                                     HS-SICH-ID,
    timeslot
                                                     TimeSlot,
    midambleShiftAndBurstType
                                                     MidambleShiftAndBurstType,
    tDD-ChannelisationCode
                                                     TDD-ChannelisationCode,
                                                     ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }
    iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
HSSICH-Info-ExtIEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-SICH-ID-Extension
                                             CRITICALITY iqnore
                                                                      EXTENSION HS-SICH-ID-Extension PRESENCE optional },
    -- Applicable for 1.28Mcps TDD only when the HS-SICH ID IE is more than 31
    . . .
}
HSSICH-Info768 ::= SEQUENCE
```

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```

```
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 RNSAP-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,
                                ProtocolExtensionContainer { { HS-SICH-Reception-Ouality-Value-ExtIEs } } OPTIONAL,
    iE-Extensions
. . .
}
HS-SICH-Reception-Quality-Value-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
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]
HS-SICH-ID ::= INTEGER (0..31)
HS-SICH-ID-Extension ::= INTEGER (32..255,...)
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-FDD-Update-Information ::= SEQUENCE {
```

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OPTIONAL, hsSCCHCodeChangeIndicator HSSCCH-CodeChangeIndicator cgiFeedback-CycleK COI-Feedback-Cycle OPTIONAL, cgiRepetitionFactor COI-RepetitionFactor OPTIONAL. ackNackRepetitionFactor AckNack-RepetitionFactor OPTIONAL, cgiPowerOffset COI-Power-Offset OPTIONAL, ackPowerOffset Ack-Power-Offset OPTIONAL, nackPowerOffset Nack-Power-Offset OPTIONAL, iE-Extensions ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } } OPTIONAL, . . . HSDSCH-FDD-Update-Information-ExtIEs RNSAP-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-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } -- I IMEI ::= OCTET STRING (SIZE(8)) TMETSV ::= OCTET STRING (SIZE(8)) IMSI ::= OCTET STRING (SIZE(3..8)) Inactivity-Threshold-for-UE-DTX-Cycle2 ::= ENUMERATED {v1, v4, v8, v16, v32, v64, v128, v256} -- Unit E-DCH TTI Inactivity-Threshold-for-UE-DRX-Cycle ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512} -- Unit subframe Inactivity-Threshold-for-UE-Grant-Monitoring ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256} -- Unit E-DCH TTI InformationAvailable::= SEOUENCE { requestedDataValue RequestedDataValue, iE-Extensions ProtocolExtensionContainer { { InformationAvailable-ExtIEs } } OPTIONAL. . . . } InformationAvailable-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . .

```
}
InformationExchangeID ::= INTEGER (0..1048575)
InformationNotAvailable ::= NULL
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            NULL,
    periodic
                            PeriodicInformation,
    onModification
                            OnModificationInformation,
    . . .
}
InformationReportPeriodicity ::= CHOICE {
    min
                    INTEGER (1..60,...),
-- Unit min, Step 1min
                    INTEGER (1..24,...),
    hour
-- Unit hour, Step 1hour
    . . .
}
InformationThreshold ::= CHOICE {
    dGPSThreshold
                       DGPSThreshold,
    . . . ,
    dGANSSThreshold
                     DGANSSThreshold
}
InformationType ::= SEQUENCE {
    informationTypeItem
                            ENUMERATED {
        gA-AccessPointPositionwithAltitude,
        qA-AccessPointPosition,
        iPDLParameters,
        qPSInformation,
        dGPSCorrections,
        qPS-RX-POS,
        sFNSFN-GA-AccessPointPosition,
        ...,
        cell-Capacity-Class,
        nACC-Related-Data,
        mBMSBearerServiceFullAddress,
        interFrequencyCellInformation,
        gANSSInformation,
        dGANSSCorrections,
        gANSS-RX-Pos
    },
    gPSInformation
                                GPSInformation
                                                         OPTIONAL,
                                ProtocolExtensionContainer { { InformationType-ExtIEs} }
    iE-Extensions
                                                                                                  OPTIONAL,
    . . .
```

}

-- The GPS Information IE shall be present if the Information Exchange Type IE indicates 'GPS Information'

-- For information exchange on the Iur-g interface, only the Cell Capacity Class is used.

```
InformationType-ExtIEs RNSAP-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-Reg
                                        CRITICALITY ignore EXTENSION DGANSS-Corrections-Reg
                                                                                                 PRESENCE conditional },
    . . .
Initial-DL-DPCH-TiminqAdjustment-Allowed ::= ENUMERATED
    initial-DL-DPCH-TimingAdjustment-Allowed
InnerLoopDLPCStatus
                        ::= ENUMERATED {active, inactive}
IPDLParameters ::= CHOICE {
    iPDL-FDD-Parameters
                                IPDL-FDD-Parameters,
   iPDL-TDD-Parameters
                                IPDL-TDD-Parameters,
                                                         --3.84Mcps TDD and 7.68Mcps TDD only
    . . . ,
    extension-IPDLParameters
                                Extension-IPDLParameters
                           ::= ProtocolIE-Single-Container {{ Extension-IPDLParametersIE }}
Extension-IPDLParameters
Extension-IPDLParametersIE RNSAP-PROTOCOL-IES ::= {
    { ID id-IPDL-TDD-ParametersLCR CRITICALITY reject TYPE IPDL-TDD-ParametersLCR PRESENCE mandatory },
    . . .
3
Inter-Frequency-Cell-List ::= SEQUENCE (SIZE (0..maxCellsMeas)) OF Inter-Frequency-Cell
Inter-Frequency-Cell ::= SEQUENCE {
    dL-UARFCN
                                UARFCN,
    uL-UARFCN
                                UARFCN
                                            OPTIONAL,
    primaryScramblingCode
                                PrimaryScramblingCode,
    iE-Extensions
                                ProtocolExtensionContainer { {Inter-Frequency-Cell-ExtIEs} }
                                                                                                   OPTIONAL,
    . . .
Inter-Frequency-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Inter-Frequency-Cell-Information ::= SEQUENCE {
    inter-Frequency-Cell-Information-SIB11
                                                Inter-Frequency-Cell-Information-SIB11,
                                                Inter-Frequency-Cell-Information-SIB12,
    inter-Frequency-Cell-Information-SIB12
                                ProtocolExtensionContainer { { Inter-Frequency-Cell-Information-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
Inter-Frequency-Cell-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

Inter-Frequency-Cell-Information-SIB11 ::= SEQUENCE (SIZE (0..2)) OF Inter-Frequency-Cells-Information-SIB11-Per-Indication

```
Inter-Frequency-Cell-Information-SIB12 ::= SEQUENCE (SIZE (0..2)) OF Inter-Frequency-Cells-Information-SIB12-Per-Indication
Inter-Frequency-Cells-Information-SIB11-Per-Indication ::= SEQUENCE {
    inter-Frequency-Cell-Indication-SIB11 Inter-Frequency-Cell-Indication,
    inter-Frequency-Cell-List-SIB11
                                        Inter-Frequency-Cell-SIB11-or-SIB12-List,
                                ProtocolExtensionContainer { { Inter-Frequency-Cells-Information-SIB11-Per-Indication-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
ļ
Inter-Frequency-Cells-Information-SIB11-Per-Indication-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Inter-Frequency-Cells-Information-SIB12-Per-Indication ::= SEQUENCE {
    inter-Frequency-Cell-Indication-SIB12 Inter-Frequency-Cell-Indication,
    inter-Frequency-Cell-List-SIB12
                                      Inter-Frequency-Cell-SIB11-or-SIB12-List,
                               ProtocolExtensionContainer { { Inter-Frequency-Cells-Information-SIB12-Per-Indication-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
Inter-Frequency-Cells-Information-SIB12-Per-Indication-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Inter-Frequency-Cell-Indication ::= INTEGER (0..1)
Inter-Frequency-Cell-SIB11-or-SIB12-List ::= SEQUENCE (SIZE (0..maxCellSIB11OrSIB12)) OF Inter-Frequency-Cell-SIB11-or-SIB12
Inter-Frequency-Cell-SIB11-or-SIB12 ::= SEQUENCE
    interFrequencyCellID
                                InterFrequencyCellID,
    dL-UARFCN
                                UARFCN,
    uL-UARFCN
                                UARFCN
                                            OPTIONAL,
                                PrimaryScramblingCode,
    primaryScramblingCode
                                ProtocolExtensionContainer { {Inter-Frequency-Cell-ExtIEs} }
    iE-Extensions
                                                                                                   OPTIONAL,
    . . .
InterFrequencyCellID ::= INTEGER (0..31)
IPDL-FDD-Parameters ::= SEQUENCE {
    iPSpacingFDD
                                IPSpacingFDD,
   iPLength
                                IPLength,
   iPOffset
                                IPOffset,
    seed
                                Seed,
    burstModeParameters
                                BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { { IPDL-FDD-Parameters-ExtIEs } }
                                                                                                   OPTIONAL,
    . . .
IPDL-FDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
IPDL-TDD-Parameters ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                 IPStart,
    iPSlot
                                 IPSlot,
    iP-P-CCPCH
                                IP-P-CCPCH,
    burstModeParameters
                                BurstModeParameters
                                                         OPTIONAL,
                                 ProtocolExtensionContainer { { IPDL-TDD-Parameters-ExtIEs } }
    iE-Extensions
                                                                                                    OPTIONAL,
    . . .
}
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDL-TDD-ParametersLCR ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                IPStart,
    i PSub
                                IPSub,
    burstModeParameters
                                 BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer { { IPDL-TDD-ParametersLCR-ExtIEs } } OPTIONAL,
    . . .
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-ParametersLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPLength ::= ENUMERATED {
    ipl5,
    ipl10,
    . . .
}
IPMulticastAddress ::= OCTET STRING (SIZE (4..16))
IPOffset ::= INTEGER (0..9)
IP-P-CCPCH ::= ENUMERATED {
    switchOff-1-Frame,
    switchOff-2-Frames
}
IPSlot ::= INTEGER (0..14)
IPSpacingFDD ::= ENUMERATED {
    ipsF5,
    ipsF7,
    ipsF10,
    ipsF15,
```

}

```
ipsF20,
    ipsF30,
    ipsF40,
    ipsF50,
    . . .
}
IPSpacingTDD ::= ENUMERATED {
    ipsT30,
    ipsT40,
    ipsT50,
    ipsT70,
    ipsT100,
    . . .
}
IPStart ::= INTEGER (0..4095)
IPSub ::= ENUMERATED {
    first,
    second,
    both
}
-- J
-- K
-- L
                    ::= OCTET STRING (SIZE (2)) -- (EXCEPT ('0000'H|'FFFE'H))
LAC
LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}
List-Of-PLMNs ::= SEQUENCE (SIZE (1..maxNrOfBroadcastPLMNs)) OF PLMN-Identity
L3-Information
                            ::= BIT STRING
Load-Value-IncrDecrThres ::= INTEGER(0..100)
Load-Value ::= INTEGER(0..100)
LoadValue ::= SEQUENCE {
        uplinkLoadValue
                             INTEGER(0..100),
        downlinkLoadValue
                            INTEGER(0..100)
}
LCRTDD-Uplink-Physical-Channel-Capability ::= SEQUENCE {
    maxTimeslotsPerSubFrame
                                         INTEGER(1..6),
    maxPhysChPerTimeslot
                                         ENUMERATED{ts1, ts2, ts3, ts4,...},
                                         ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- M
MaxNrOfUL-DPCHs
                     ::= INTEGER (1..6)
MAC-c-sh-SDU-Length
                          ::= INTEGER (1..5000)
MAC-c-sh-SDU-LengthList ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
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,...}
MAC-Inactivity-Threshold ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
    -- Unit subframe
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,...)
MACdPDU-Size-IndexList ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) 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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MACdPDU-Size-IndexList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPDUIndexes)) OF MACdPDU-Size-IndexItem-to-Modify
MACdPDU-Size-IndexItem-to-Modify ::= SEQUENCE {
    sID
                                        SID,
    mACdPDU-Size
                                        MACdPDU-Size,
    iE-Extensions
                                        ProtocolExtensionContainer { { MACdPDU-Size-IndexItem-to-Modify-ExtIEs } }
                                                                                                                          OPTIONAL.
    . . .
}
MACdPDU-Size-IndexItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
MACes-Guaranteed-Bitrate ::= INTEGER (0..16777215,...,16777216..256000000)
MACeReset-Indicator ::= ENUMERATED {mACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0...16777215,...,16777216...256000000)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
-- Unit kBytes
                        ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,...}
MAC-hsWindowSize
MaximumAllowedULTxPower
                           ::= INTEGER (-50..33)
Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)
MaxNrDLPhysicalchannels
                          ::= INTEGER (1..224)
-- 1.28Mcps TDD 97 - 224 are unused
MaxNrDLPhysicalchannels768 ::= INTEGER (1..448)
MaxNrDLPhysicalchannelsTS := INTEGER (1..16)
MaxNrDLPhysicalchannelsTS768 := INTEGER (1..32)
MaxNr-Retransmissions-EDCH ::= INTEGER (0..15)
MaxNrTimeslots
                           ::= INTEGER (1..14)
-- 1.28Mcps values 7-14 are unused
MaxNrULPhysicalchannels
                           ::= INTEGER (1..2)
Max-Set-E-DPDCHs ::= ENUMERATED {
    vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4,
   ...,
   v2xM2plus2xM4
-- Values releated to [9]
Max-UE-DTX-Cycle ::= ENUMERATED {
    v5, v10, v20, v40, v64, v80, v128, v160,
    . . .
    }
MBMS-Bearer-Service-Full-Address ::= SEQUENCE {
    accessPointName
                                            AccessPointName,
   iPMulticastAddress
                                            IPMulticastAddress,
   iE-Extensions
                                        ProtocolExtensionContainer { { MBMS-Bearer-Service-Full-Address-ExtIEs } }
                                                                                                                          OPTIONAL.
    . . .
}
MBMS-Bearer-Service-Full-Address-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
MBMS-Bearer-Service-List := SEOUENCE (SIZE (1..maxNrOfMBMSServices)) OF TMGI
MBMS-Bearer-ServiceItemFDD ::=SEQUENCE{
    tmgi TMGI,
    transmissionMode
                      TransmissionMode,
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
MBMS-Bearer-ServiceItemFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Bearer-ServiceItemFDD-PFL ::=SEQUENCE{
    tmgi TMGI,
    transmissionMode
                           TransmissionMode
                                                OPTIONAL,
    preferredFrequencyLayer
                                UARFCN
                                                OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemFDD-PFL-ExtIEs } } OPTIONAL,
    . . .
}
MBMS-Bearer-ServiceItemFDD-PFL-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMS-Bearer-ServiceItemTDD ::=SEQUENCE{
    tmqi
          TMGI,
    transmissionMode
                       TransmissionMode,
    iE-Extensions
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemTDD-ExtIEs } } OPTIONAL,
    . . .
}
MBMS-Bearer-ServiceItemTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MBMS-Bearer-ServiceItemTDD-PFL ::=SEQUENCE{
    tmqi
           TMGI,
    transmissionMode
                       TransmissionMode
                                            OPTIONAL,
    preferredFrequencyLayer
                                UARFCN
                                                OPTIONAL,
                                    ProtocolExtensionContainer { { MBMS-Bearer-ServiceItemTDD-PFL-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
MBMS-Bearer-ServiceItemTDD-PFL-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMSChannelTypeInfo ::= SEQUENCE {
    tMGI
                        TMGI,
    pTM-Cell-List
                        PTMCellList
                                        OPTIONAL,
    pTP-Cell-List
                        PTPCellList
                                        OPTIONAL,
```

```
not-Provided-Cell-List NotProvidedCellList OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer { { MBMSChannelTypeInfo-ExtIEs } } OPTIONAL,
    . . .
MBMSChannelTypeInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MBMSChannelTypeCellList ::= SEQUENCE {
                                             C-ID,
    c-ID
    affectedUEInformationForMBMS
                                        AffectedUEInformationForMBMS
                                                                         OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { { MBMSChannelTypeCellList-ExtIEs } } OPTIONAL,
    . . .
}
MBMSChannelTypeCellList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
MBMSPreferredFreqLayerInfo ::= SEQUENCE {
    tMGI
                                     TMGI,
    preferredFrequencyLayerInfo
                                    PreferredFrequencyLayerInfo,
    iE-Extensions
                                     ProtocolExtensionContainer { { MBMSPreferredFreqLayerInfo-ExtIEs } } OPTIONAL,
    . . .
MBMSPreferredFreqLayerInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
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
MinimumSpreadingFactor
                            ::= INTEGER (1..16)
MinimumSpreadingFactor768
                                ::= INTEGER (1..32)
MultipleURAsIndicator ::= ENUMERATED {
    multiple-URAs-exist,
    single-URA-exists
}
MaxAdjustmentStep
                            ::= INTEGER(1..10)
-- Unit Slot
MeasurementChangeTime
                            ::= INTEGER (1..6000,...)
-- The MeasurementChangeTime gives the MeasurementChangeTime
-- in number of 10 ms periods.
```

```
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10 ms
MeasurementHysteresisTime
                               ::= INTEGER (1..6000,...)
-- The MeasurementHysteresisTime gives the
-- MeasurementHysteresisTime in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10ms
MeasurementIncreaseDecreaseThreshold
                                           ::= CHOICE {
    sir
                                   SIR-Value-IncrDecrThres,
    sir-error
                                   SIR-Error-Value-IncrDecrThres.
    transmitted-code-power
                                   Transmitted-Code-Power-Value-IncrDecrThres.
                                   RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                   Round-Trip-Time-IncrDecrThres,
    . . . .
    extension-MeasurementIncreaseDecreaseThreshold
                                                       Extension-MeasurementIncreaseDecreaseThreshold
Extension-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }}
Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= {
     ID id-Load-Value-IncrDecrThres CRITICALITY reject TYPE Load-Value-IncrDecrThres PRESENCE mandatory }
     ID id-Transmitted-Carrier-Power-Value-IncrDecrThres CRITICALITY reject TYPE Transmitted-Carrier-Power-Value-IncrDecrThres
                                                                                                                                   PRESENCE
mandatory }|
    { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres CRITICALITY reject TYPE Received-Total-Wideband-Power-Value-IncrDecrThres
    PRESENCE mandatory } |
     ID id-UL-Timeslot-ISCP-Value-IncrDecrThres CRITICALITY reject TYPE UL-Timeslot-ISCP-Value-IncrDecrThres PRESENCE mandatory }
     ID id-RT-Load-Value-IncrDecrThres CRITICALITY reject TYPE RT-Load-Value-IncrDecrThres
                                                                                              PRESENCE mandatory }|
     ID id-NRT-Load-Information-Value-IncrDecrThres CRITICALITY reject TYPE NRT-Load-Information-Value-IncrDecrThres PRESENCE mandatory }
     ID id-UpPTSInterferenceValue
                                       CRITICALITY reject TYPE UpPTSInterferenceValue
                                                                                              PRESENCE mandatory }
}
MeasurementRecovervBehavior ::= NULL
MeasurementRecoveryReportingIndicator ::= NULL
MeasurementRecoverySupportIndicator ::= NULL
MeasurementThreshold
                              ::= CHOICE {
    sir
                                   SIR-Value.
                                   SIR-Error-Value,
    sir-error
    transmitted-code-power
                                   Transmitted-Code-Power-Value,
                                   RSCP-Value,
    rscp
    rx-timing-deviation
                                   Rx-Timing-Deviation-Value,
    round-trip-time
                                   Round-Trip-Time-Value,
    . . . ,
    extension-MeasurementThreshold Extension-MeasurementThreshold
Extension-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }}
```

```
Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= {
```

```
ID id-TUTRANGPSMeasurementThresholdInformation
                                                         CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation
                                                                                                                               PRESENCE mandatory }
      ID id-SFNSFNMeasurementThresholdInformation
                                                         CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                               PRESENCE mandatory
      ID id-Load-Value
                                                         CRITICALITY reject TYPE Load-Value
                                                                                                                               PRESENCE mandatory
      ID id-Transmitted-Carrier-Power-Value
                                                         CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                               PRESENCE mandatory
      ID id-Received-Total-Wideband-Power-Value
                                                         CRITICALITY reject TYPE Received-Total-Wideband-Power-Value
                                                                                                                               PRESENCE mandatory
      ID id-UL-Timeslot-ISCP-Value
                                                         CRITICALITY reject TYPE UL-Timeslot-ISCP-Value
                                                                                                                               PRESENCE mandatory
                                                                                                                               PRESENCE mandatory
      ID id-RT-Load-Value
                                                         CRITICALITY reject TYPE RT-Load-Value
      ID id-NRT-Load-Information-Value
                                                         CRITICALITY reject TYPE NRT-Load-Information-Value
                                                                                                                               PRESENCE mandatory
      ID id-Rx-Timing-Deviation-Value-LCR
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                                              PRESENCE mandatory
      ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory
      ID id-UpPTSInterferenceValue
                                                         CRITICALITY reject TYPE UpPTSInterferenceValue
                                                                                                                               PRESENCE mandatory
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768
      ID id-Rx-Timing-Deviation-Value-768
                                                                                                                               PRESENCE mandatory }
                                                         CRITICALITY reject TYPE Rx-Timing-Deviation-Value-ext
      ID id-Rx-Timing-Deviation-Value-ext
                                                                                                                               PRESENCE mandatory }
      ID id-Extended-Round-Trip-Time-Value
                                                         CRITICALITY reject TYPE Extended-Round-Trip-Time-Value
                                                                                                                               PRESENCE mandatory }
      ID id-TUTRANGANSSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGANSSMeasurementThresholdInformation PRESENCE mandatory }
MidambleConfigurationBurstType1And3 ::=
                                            ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstType2 ::=
                                        ENUMERATED {v3, v6}
                                ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}
MidambleConfigurationLCR ::=
MidambleShiftAndBurstTvpe ::=
                                    CHOICE {
                                        SEQUENCE
    type1
        midambleConfigurationBurstType1And3
                                                MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                            CHOICE
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
            ueSpecificMidamble
                                                MidambleShiftLong,
            . . .
        },
        . . .
    type2
                                        SEOUENCE
                                            MidambleConfigurationBurstType2,
        midambleConfigurationBurstType2
        midambleAllocationMode
                                            CHOICE {
            defaultMidamble
                                                NULL,
            commonMidamble
                                                NULL,
                                                MidambleShiftShort,
            ueSpecificMidamble
            . . .
        },
        . . .
    },
    type3
                                        SEOUENCE
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                        CHOICE
            defaultMidamble
                                                NULL,
            ueSpecificMidamble
                                                MidambleShiftLong,
            . . .
        },
        . . .
    },
```

```
}
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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
MidambleShiftAndBurstType768 ::=
                                         CHOICE {
    type1
                                         SEOUENCE
        midambleConfigurationBurstType1And3
                                                 MidambleConfigurationBurstType1And3,
        midambleAllocationMode
                                             CHOICE
            defaultMidamble
                                                 NULL,
            commonMidamble
                                                 NULL,
            ueSpecificMidamble
                                                 MidambleShiftLong,
            . . .
        },
        . . .
    },
    type2
                                         SEOUENCE
        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-InformationResponse ::= SEQUENCE {
    mIMO-PilotConfiguration
                                                 MIMO-PilotConfiguration,
    mIMO-N-M-Ratio
                                                 MIMO-N-M-Ratio,
    iE-Extensions
                                                 ProtocolExtensionContainer { { MIMO-InformationResponse-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
}
MIMO-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
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,
    . . .
}
MinUL-ChannelisationCodeLength
                                     ::= ENUMERATED
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
ModifyPriorityQueue ::= CHOICE {
    addPriorityQueue
                                 PriorityQueue-InfoItem-to-Add,
    modifyPriorityQueue
                                 PriorityQueue-InfoItem-to-Modify,
    deletePriorityQueue
                                 PriorityQueue-Id,
    . . .
}
```

```
Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    . . .
3
Multiple-PLMN-List ::= SEQUENCE {
    pLMN-Identity
                       PLMN-Identity,
   list-Of-PLMNs
                        List-Of-PLMNs
                                                                                      OPTIONAL,
                        ProtocolExtensionContainer { { Multiple-PLMN-List-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
3
Multiple-PLMN-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
MultiplexingPosition ::= ENUMERATED {
    fixed.
    flexible
MAChs-ResetIndicator ::= ENUMERATED{
    mAChs-NotReset
}
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-TDD-Specific-InfoList-Response-LCR
                                                     HSSCCH-TDD-Specific-InfoList-Response-LCR
                                                                                                  OPTIONAL,
    hARQ-MemoryPartitioning
                                                     HARQ-MemoryPartitioning
                                                                                                  OPTIONAL,
    UARFCN
                                                     UARFCN,
    -- This is the UARFCN for the second and beyond Frequency repetition.
                                                     ProtocolExtensionContainer { { MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }
    iE-Extensions
        OPTIONAL,
    . . .
}
MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
. . .
}
-- N
NACC-Related-Data ::= SEQUENCE
    gERAN-SI-Type
                                GERAN-SI-Type,
    iE-Extensions
                                ProtocolExtensionContainer { {NACC-Related-Data-ExtIEs} }
                                                                                                  OPTIONAL,
    . . .
```

```
NACC-Related-Data-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [21] subclause 4.2.1
NCC ::= BIT STRING (SIZE (3))
Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-
CellInformationItemIE } }
Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE
                                                                                 Neighbouring-UMTS-CellInformationItem PRESENCE mandatory }
Neighbouring-UMTS-CellInformationItem ::= SEQUENCE
    rNC-ID
                                            RNC-ID,
    cN-PS-DomainIdentifier
                                            CN-PS-DomainIdentifier
                                                                         OPTIONAL.
    cN-CS-DomainIdentifier
                                            CN-CS-DomainIdentifier
                                                                         OPTIONAL,
    neighbouring-FDD-CellInformation
                                            Neighbouring-FDD-CellInformation
                                                                                 OPTIONAL,
                                            Neighbouring-TDD-CellInformation
    neighbouring-TDD-CellInformation
                                                                                 OPTIONAL,
                                            ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-neighbouring-LCR-TDD-CellInformation
                                                             CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 Neighbouring-LCR-TDD-CellInformation
                                                                                                                                             PRESENCE
optional }|
    { ID id-Extended-RNC-ID
                                                CRITICALITY reject EXTENSION Extended-RNC-ID
    PRESENCE optional },
    . . .
Neighbouring-FDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem
Neighbouring-FDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                        C-ID,
    uARFCNforNu
                                        UARFCN,
    uARFCNforNd
                                        UARFCN,
    frameOffset.
                                        FrameOffset
                                                             OPTIONAL.
    primaryScramblingCode
                                        PrimaryScramblingCode,
    primaryCPICH-Power
                                        PrimaryCPICH-Power
                                                                 OPTIONAL,
    cellIndividualOffset
                                        CellIndividualOffset
                                                                OPTIONAL.
    txDiversitvIndicator
                                        TxDiversityIndicator,
    sTTD-SupportIndicator
                                        STTD-SupportIndicator
                                                                OPTIONAL,
    closedLoopMode1-SupportIndicator
                                        ClosedLoopMode1-SupportIndicator
                                                                             OPTIONAL,
    not-used-closedLoopMode2-SupportIndicator NULL
                                                        OPTIONAL,
                                        ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

<pre>{ ID id-RestrictionStateIndicator     { ID id-DPC-Mode-Change-SupportIndicator     { ID id-CoverageIndicator     { ID id-AntennaColocationIndicator     { ID id-HCS-Prio     { ID id-CellCapabilityContainer-FDD     { ID id-SNA-Information     { ID id-FrequencyBandIndicator     { ID id-Max-UE-DTX-Cycle     This IE shall be present if the the FDD IE is set to the value "1".     { ID id-Multiple-PLMN-List  }</pre>	CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore	EXTENSION AntennaColocationIndicator P EXTENSION HCS-Prio P EXTENSION CellCapabilityContainer-FDD EXTENSION SNA-Information PRESENCE o EXTENSION FrequencyBandIndicator P EXTENSION Max-UE-DTX-Cycle P cket Connectivity DTX-DRX Support Indicator	<pre>tor PRESENCE optional }  RESENCE optional }  RESENCE optional }  RESENCE optional }  PRESENCE optional }  RESENCE optional }  RESENCE conditional } </pre>
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {			
	C-ID,		
	ARFCN, rimaryScramblingCode,		
		NeighbouringFDDCellMeasurementInformationIt	cem-ExtIEs} } OPTIONAL.
			,
}			
NeighbouringFDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {			
· · · ·			
}			
Neighbouring-GSM-CellInformation ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationIE }}			
Neighbouring-GSM-CellInformationIE RNSAP-PROTOCOL-IES ::= {			
{ ID id-Neighbouring-GSM-CellInformation CRITICALITY ignore TYPE Neighbouring-GSM-CellInformationIEs PRESENCE mandatory }			
Neighbouring-GSM-CellInformationIEs ::= SEQUENCE ( SIZE (1maxNrOfGSMNeighboursPerRNC,)) OF Neighbouring-GSM-CellInformationItem			
Neighbouring-GSM-CellInformationItem ::= S cGI CC			
	JI, ellIndividualOffset OPTIONA	ΔΤ	
	SIC,		
band-Indicator Ba	and-Indicator,		
	CCH-ARFCN,		
	rotocolExtensionContainer { {	Neighbouring-GSM-CellInformationItem-ExtIEs	s} } OPTIONAL,
}			
]			
<pre>Neighbouring-GSM-CellInformationItem-ExtI { ID id-CoverageIndicator { ID id-AntennaColocationIndicator { ID id-HCS-Prio { ID id-SNA-Information { ID id-GERAN-Cell-Capability { ID id-GERAN-Classmark { ID id-ExtendedGSMCellIndividualOffset</pre>	CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore	<pre>:= {     EXTENSION CoverageIndicator     EXTENSION AntennaColocationIndicator     EXTENSION HCS-Prio     EXTENSION SNA-Information     EXTENSION GERAN-Cell-Capability     EXTENSION GERAN-Classmark     EXTENSION ExtendedGSMCellIndividualOffset</pre>	PRESENCE optional }   PRESENCE optional },

. . .

```
Neighbouring-TDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem
Neighbouring-TDD-CellInformationItem ::= SEQUENCE {
    C-TD
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                        OPTIONAL,
    cellParameterID
                                    CellParameterID,
    syncCase
                                    SyncCase,
    timeSlot
                                    TimeSlot
                                                        OPTIONAL
    -- This IE shall be present if Sync Case = Case1 -- ,
    sCH-TimeSlot
                                    SCH-TimeSlot
                                                            OPTIONAL
    -- This IE shall be present if Sync Case = Case2 -- ,
                           SCTD-Indicator,
    sCTD-Indicator
    cellIndividualOffset
                                    CellIndividualOffset
                                                            OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
                                    PCCPCH-Power
    pCCPCH-Power
                                                            OPTIONAL,
                                    ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-RestrictionStateIndicator
                                                    CRITICALITY ignore
                                                                                 EXTENSION RestrictionStateIndicator
                                                                                                                       PRESENCE optional }
      ID id-CoverageIndicator
                                                                                                                  PRESENCE optional } |
                                            CRITICALITY iqnore
                                                                         EXTENSION CoverageIndicator
      ID id-AntennaColocationIndicator
                                            CRITICALITY ignore
                                                                         EXTENSION AntennaColocationIndicator
                                                                                                                  PRESENCE optional }
      ID id-HCS-Prio
                                            CRITICALITY ignore
                                                                         EXTENSION HCS-Prio
                                                                                                                  PRESENCE optional }
      ID id-CellCapabilityContainer-TDD
                                                    CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD
                                                                                                                        PRESENCE optional }|
      ID id-SNA-Information
                                                    CRITICALITY ignore EXTENSION SNA-Information
                                                                                                                  PRESENCE optional }|
      ID id-CellCapabilityContainer-TDD768
                                                        CRITICALITY ignore EXTENSION CellCapabilityContainer-TDD768
                                                                                                                              PRESENCE optional }|
                                                                         EXTENSION Multiple-PLMN-List
     ID id-Multiple-PLMN-List
                                            CRITICALITY ignore
                                                                                                                  PRESENCE optional },
    . . .
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                    OPTIONAL,
    midambleShiftAndBurstType
                                        MidambleShiftAndBurstType
                                                                    OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE
    11C-TD
                                        UC-ID,
    UARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlotLCR
                                        TimeSlotLCR
                                                                     OPTIONAL,
    midambleShiftLCR
                                        MidambleShiftLCR
                                                                    OPTIONAL,
```

**ETSI** 

```
ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NeighbouringTDDCellMeasurementInformation768 ::= SEQUENCE
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
    timeSlot
                                        TimeSlot
                                                                     OPTIONAL,
                                        MidambleShiftAndBurstType768
    midambleShiftAndBurstType768
                                                                         OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem768-ExtIEs } } OPTIONAL,
    . . .
NeighbouringTDDCellMeasurementInformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Neighbouring-LCR-TDD-CellInformation ::= SEQUENCE (SIZE (1.. maxNrOfLCRTDDNeighboursPerRNC,...)) OF Neighbouring-LCR-TDD-CellInformationItem
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
    C-TD
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    sCTD-Indicator
                            SCTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue
                                                        OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power
                                                             OPTIONAL,
    restrictionStateIndicator
                                    RestrictionStateIndicator
                                                                     OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-LCR-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-CoverageIndicator
                                            CRITICALITY iqnore
                                                                                 CoverageIndicator
                                                                                                                     PRESENCE optional }
                                                                     EXTENSION
      ID id-AntennaColocationIndicator
                                                                                 AntennaColocationIndicator
                                                                                                                     PRESENCE optional
                                            CRITICALITY iqnore
                                                                     EXTENSION
                                                                                                                     PRESENCE optional }
      ID id-HCS-Prio
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 HCS-Prio
      ID id-CellCapabilityContainer-TDD-LCR CRITICALITY ignore
                                                                                 CellCapabilityContainer-TDD-LCR
                                                                                                                     PRESENCE optional }
                                                                     EXTENSION
      ID id-SNA-Information
                                                                                 SNA-Information
                                                                                                                     PRESENCE optional }
                                            CRITICALITY ignore
                                                                     EXTENSION
     ID id-Multiple-PLMN-List
                                                                                 Multiple-PLMN-List
                                                                                                                     PRESENCE optional },
                                            CRITICALITY ignore
                                                                     EXTENSION
    . . .
NotProvidedCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
NrOfDLchannelisationcodes := INTEGER (1..8)
NrOfTransportBlocks
                            ::= INTEGER (0..512)
```

```
NRT-Load-Information-Value-IncrDecrThres ::= INTEGER(0..3)
NRT-Load-Information-Value ::= INTEGER(0..3)
NRTLoadInformationValue ::= SEQUENCE {
        uplinkNRTLoadInformationValue
                                            INTEGER(0..3),
        downlinkNRTLoadInformationValue
                                            INTEGER(0..3)
}
N-E-UCCH ::= INTEGER (1..12)
N-E-UCCH-LCR ::= 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,
    . . .
}
-- 0
OnModification ::= SEQUENCE {
    measurementThreshold MeasurementThreshold,
                            ProtocolExtensionContainer { {OnModification-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
OnModification-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
OnModificationInformation ::= SEQUENCE {
    informationThreshold InformationThreshold
                                                    OPTIONAL,
                            ProtocolExtensionContainer { {OnModificationInformation-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
OnModificationInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- P
PagingCause ::= ENUMERATED {
    terminating-conversational-call,
    terminating-streaming-call,
    terminating-interactive-call,
```

terminating-background-call,

```
terminating-low-priority-signalling,
    ...,
    terminating-high-priority-signalling,
    terminating-cause-unknown
3
-- See in [16]
PagingRecordType ::= ENUMERATED {
    imsi-qsm-map,
    tmsi-qsm-map,
    p-tmsi-qsm-map,
    imsi-ds-41,
    tmsi-ds-41,
    . . .
3
-- See in [16]
PartialReportingIndicator ::= ENUMERATED {
    partial-reporting-allowed
}
PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}
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 0.1dBm
PCH-InformationList ::= SEQUENCE (SIZE(0..1)) OF PCH-InformationItem
PCH-InformationItem ::= SEQUENCE {
                                     TransportFormatSet,
    transportFormatSet
    iE-Extensions
                                     ProtocolExtensionContainer { { PCH-InformationItem-ExtIEs } } OPTIONAL,
    . . .
}
PCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PC-Preamble ::= INTEGER(0...7,...)
Periodic ::= SEQUENCE {
    reportPeriodicity
                            ReportPeriodicity,
    iE-Extensions
                            ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    . . .
}
```

```
Periodic-Extles RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
PeriodicInformation ::= SEQUENCE {
    informationReportPeriodicity
                                         InformationReportPeriodicity,
    iE-Extensions
                                         ProtocolExtensionContainer { { PeriodicInformation-ExtIEs } } OPTIONAL,
    . . .
}
PeriodicInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Permanent-NAS-UE-Identity ::= CHOICE {
    imsi
                IMSI,
    . . .
}
Phase-Reference-Update-Indicator ::= ENUMERATED {
    phase-reference-needs-to-be-changed
}
PLCCHsequenceNumber ::= INTEGER (0..14)
PLMN-Identity ::= OCTET STRING (SIZE(3))
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}
PowerOffset
                        ::= INTEGER (0..24)
PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
    prcd1,
    prcd2,
    prcd5,
    prcd10,
    . . .
}
Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
}
Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
}
```

```
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
PreferredFrequencyLayerInfo ::= SEQUENCE {
    defaultPreferredFrequency
                                    UARFCN,
    additionalPreferredFrequency
                                    AdditionalPreferredFrequency
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { PreferredFrequencyLayerInfo-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
PreferredFrequencyLayerInfo-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
3
PrimaryCPICH-Power
                          ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
PrimaryCPICH-EcNo
                           ::= INTEGER (-30..30)
Primary-CPICH-Usage-For-Channel-Estimation ::= ENUMERATED {
  primary-CPICH-may-be-used,
   primary-CPICH-shall-not-be-used
PrimaryCCPCH-RSCP
                           ::= INTEGER (0..91)
-- Mapping of Non Negative values according to maping in [24]
PrimaryCCPCH-RSCP-Delta
                           ::= INTEGER (-5..-1,...)
-- Mapping of Negative values according to maping in [24]
PrimaryScramblingCode
                                ::= INTEGER (0..511)
PriorityLevel
                           ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority
PriorityQueue-Id ::= INTEGER (0..maxNrOfPrioQueues-1)
PriorityQueue-InfoList ::= SEQUENCE (SIZE (1..maxNrOfPrioQueues)) OF PriorityQueue-InfoItem
PriorityQueue-InfoItem ::= SEQUENCE {
    prioritvOueue-Id
                                        PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    t1
                                        Τ1,
    discardTimer
                                        DiscardTimer
                                                                     OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
                                        MAChsGuaranteedBitRate
    mAChsGuaranteedBitRate
                                                                     OPTIONAL,
    mACdPDU-Size-Index
                                        MACdPDU-Size-IndexList,
    rLC-Mode
                                        RLC-Mode,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityQueue-InfoItem-ExtIEs } }
                                                                                                                  OPTIONAL,
```

```
. . .
3
PriorityQueue-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended
                                        CRITICALITY reject
                                                                 EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
    . . .
PriorityQueue-InfoList-EnhancedFACH-PCH ::= SEQUENCE (SIZE (1..maxNrOfPrioQueues)) OF PriorityQueue-InfoItem-EnhancedFACH-PCH
PriorityQueue-InfoItem-EnhancedFACH-PCH ::= SEQUENCE {
    priorityQueue-Id
                                         PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    t1
                                        Τ1,
    mAC-ehs-Reset-Timer
                                        MAC-ehs-Reset-Timer,
    discardTimer
                                        DiscardTimer
                                                                                  OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
    maximum-MACdPDU-Size
                                        MAC-PDU-SizeExtended,
                                         ProtocolExtensionContainer { { PriorityOueue-InfoItem-EnhancedFACH-PCH-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
PriorityQueue-InfoItem-EnhancedFACH-PCH-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PriorityOueue-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfPrioOueues)) OF ModifyPriorityOueue
PriorityQueue-InfoItem-to-Add ::= SEQUENCE {
    priorityQueue-Id
                                         PriorityQueue-Id,
    associatedHSDSCH-MACdFlow
                                        HSDSCH-MACdFlow-ID,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    t1
                                        Τ1,
    discardTimer
                                        DiscardTimer
                                                                                  OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize,
                                        MAChsGuaranteedBitRate
    mAChsGuaranteedBitRate
                                                                                  OPTIONAL,
    mACdPDU-Size-Index
                                        MACdPDU-Size-IndexList,
    rLC-Mode
                                        RLC-Mode,
                                         ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Add-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Add-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended
                                         CRITICALITY reject
                                                                 EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
    . . .
PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
    priorityQueue-Id
                                         PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                  OPTIONAL,
    t.1
                                        т1
                                                                                  OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                  OPTIONAL,
    mAC-hsWindowSize
                                        MAC-hsWindowSize
                                                                                  OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                  OPTIONAL,
```

```
mACdPDU-Size-Index-to-Modify
                                        MACdPDU-Size-IndexList-to-Modify
                                                                                              OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Modify-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
PriorityQueue-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended
                                        CRITICALITY reject
                                                                 EXTENSION MAC-PDU-SizeExtended PRESENCE optional },
    . . .
l
PriorityQueue-InfoList-to-Modify-Unsynchronised ::= SEQUENCE (SIZE (0..maxNrOfPrioQueues)) OF PriorityQueue-InfoItem-to-Modify-Unsynchronised
PriorityOueue-InfoItem-to-Modify-Unsynchronised ::= SEQUENCE {
    priorityOueueId
                                        PriorityQueue-Id,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                                                                      OPTIONAL,
    discardTimer
                                        DiscardTimer
                                                                                                                      OPTIONAL,
    mAChsGuaranteedBitRate
                                        MAChsGuaranteedBitRate
                                                                                                                      OPTIONAL,
                                        ProtocolExtensionContainer { { PriorityOueue-InfoItem-to-Modify-Unsynchronised-ExtIEs }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
٦
PriorityQueue-InfoItem-to-Modify-Unsynchronised-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PropagationDelay
                            ::= INTEGER (0..255)
ProvidedInformation ::= SEQUENCE {
    mBMSChannelTypeInfo
                            MBMSChannelTypeInfo
                                                         OPTIONAL,
    mBMSPreferredFreqLayerInfo MBMSPreferredFreqLayerInfo
                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { ProvideInformation-ExtIEs } } OPTIONAL,
    . . .
ProvideInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UpPCH-InformationList-LCRTDD
                                            CRITICALITY ignore
                                                                     EXTENSION
                                                                                 UpPCH-InformationList-LCRTDD
                                                                                                                      PRESENCE optional },
    -- Applicable to 1.28Mcps TDD only
    . . .
}
UpPCH-InformationList-LCRTDD ::= SEQUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UpPCH-InformationItemIE-LCRTDD }}
UpPCH-InformationItemIE-LCRTDD RNSAP-PROTOCOL-IES ::= {
           id-UpPCH-InformationItem-LCRTDD CRITICALITY ignore TYPE UpPCH-InformationItem-LCRTDD
    { ID
                                                                                                                      PRESENCE mandatory },
    . . .
UpPCH-InformationItem-LCRTDD ::= SEQUENCE {
    uARFCNforNt
                            UARFCN
                                                     OPTIONAL,
    uPPCHPositionLCR
                            UPPCHPositionLCR
                                                     OPTIONAL,
                            ProtocolExtensionContainer { { UpPCH-InformationItem-LCRTDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
```

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OPTIONAL,

```
UpPCH-InformationItem-LCRTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PunctureLimit
                           ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100
-- 0 is not applicable for E-DPCH
PTMCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
PTPCellList ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF MBMSChannelTypeCellList
-- O
OE-Selector ::= ENUMERATED {
    selected,
    non-selected
3
-- R
RAC
                    ::= OCTET STRING (SIZE(1))
RANAP-RelocationInformation
                               ::= BIT STRING
Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s
RateMatchingAttribute
                               ::= INTEGER (1..maxRateMatching)
RB-Identity
                               ::= INTEGER (0..31)
RB-Info ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity
Received-Total-Wideband-Power-Value ::= Received-total-wide-band-power
Received-Total-Wideband-Power-Value-IncrDecrThres ::= INTEGER(0..620)
-- Unit dB Step 0.1dB
-- e.g. value 100 means 10dB
Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefETFCIs)) OF Reference-E-TFCI-Information-Item
Reference-E-TFCI-Information-Item ::= SEOUENCE {
    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 } }
    . . .
}
Reference-E-TFCI-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

-- The following IE shall be present if the ref E-TFCI power offset to be signalled exceeds maxNrOfRefETFCI-PO-QUANTSTEPs

```
PRESENCE optional },
    { ID id-Ext-Reference-E-TFCI-PO
                                         CRITICALITY reject
                                                                 EXTENSION Ext-Reference-E-TFCI-PO
    . . .
}
Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefETFCI-PO-OUANTSTEPs)
RefTFCNumber ::= INTEGER (0..15)
RepetitionLength
                            ::= INTEGER (1..63)
RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4.
    v8,
    v16,
    v32,
    v64
RepetitionNumber0 ::= INTEGER (0..255)
RepetitionNumber1 ::= INTEGER (1..256)
ReportCharacteristics ::= CHOICE {
    onDemand
                        NULL,
    periodic
                        Periodic,
    eventA
                        EventA,
    eventB
                        EventB,
    eventC
                        EventC,
    eventD
                        EventD,
                        EventE,
    eventE
    eventF
                        EventF,
    ...,
    extension-ReportCharacteristics
                                        Extension-ReportCharacteristics
Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}
Extension-ReportCharacteristicsIE RNSAP-PROTOCOL-IES ::= {
    { ID id-OnModification CRITICALITY reject TYPE OnModification
                                                                         PRESENCE mandatory }
}
ReportPeriodicity ::= CHOICE {
                            INTEGER (1..6000,...),
    ten-msec
-- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
-- E.g. value 6000 means 60000ms (i.e. 1min)
-- Unit ms, Step 10ms
    min
                    INTEGER (1..60,...),
-- Unit min, Step 1min
    . . .
}
RequestedDataValue ::= SEQUENCE {
```

```
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```

```
qA-AccessPointPositionwithAltitude
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
    iPDLParameters
                                                IPDLParameters
                                                                                             OPTIONAL.
    dGPSCorrections
                                                DGPSCorrections
                                                                                             OPTIONAL.
    qPS-NavigationModel-and-TimeRecovery
                                                GPS-NavigationModel-and-TimeRecovery
                                                                                             OPTIONAL.
    qPS-Ionospheric-Model
                                                GPS-Ionospheric-Model
                                                                                             OPTIONAL,
    qPS-UTC-Model
                                                GPS-UTC-Model
                                                                                             OPTIONAL,
    gPS-Almanac
                                                GPS-Almanac
                                                                                             OPTIONAL,
    qPS-RealTime-Integrity
                                                GPS-RealTime-Integrity
                                                                                             OPTIONAL,
    qPS-RX-POS
                                                GPS-RX-POS
                                                                                             OPTIONAL,
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
    sFNSFN-GA-AccessPointPosition
    iE-Extensions
                                                ProtocolExtensionContainer { { RequestedDataValue-ExtIEs} }
                                                                                                                 OPTIONAL,
    . . .
RequestedDataValue-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-Cell-Capacity-Class-Value
                                                    CRITICALITY ignore EXTENSION Cell-Capacity-Class-Value
                                                                                                                          PRESENCE optional }
      ID id-NACC-Related-Data
                                                    CRITICALITY ignore EXTENSION NACC-Related-Data
                                                                                                                          PRESENCE optional
                                                    CRITICALITY ignore EXTENSION MBMS-Bearer-Service-Full-Address
                                                                                                                          PRESENCE optional
      ID id-MBMS-Bearer-Service-Full-Address
      ID id-Inter-Frequency-Cell-Information
                                                    CRITICALITY ignore EXTENSION Inter-Frequency-Cell-Information
                                                                                                                          PRESENCE optional
      ID id-GANSS-Common-Data
                                                    CRITICALITY ignore EXTENSION GANSS-Common-Data
                                                                                                                          PRESENCE optional }
     ID id-GANSS-Generic-Data
                                                    CRITICALITY ignore EXTENSION GANSS-Generic-Data
                                                                                                                          PRESENCE optional },
    . . .
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                                InformationAvailable,
    informationNotAvailable
                                InformationNotAvailable
RestrictionStateIndicator ::= ENUMERATED {
    cellNotResevedForOperatorUse,
    cellResevedForOperatorUse,
    . . .
RL-ID
                        ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
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,
    -- Shall be ignored if bearer establishment with ALCAP.
    transportLayerAddress TransportLayerAddress
                                                        OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs } } OPTIONAL,
    . . .
RL-Specific-DCH-Info-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-TransportBearerNotRequestedIndicator
                                                   CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator PRESENCE optional }, --
FDD only
```

```
. . .
}
RL-Specific-EDCH-Information ::= SEQUENCE {
    rL-Specific-EDCH-Info RL-Specific-EDCH-Info,
    e-AGCH-PowerOffset
                            E-AGCH-PowerOffset
                                                                                                        OPTIONAL,
    e-RGCH-PowerOffset
                           E-RGCH-PowerOffset
                                                                                                        OPTIONAL,
    e-HICH-PowerOffset
                           E-HICH-PowerOffset
                                                                                                        OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { { RL-Specific-EDCH-Information-Item-ExtIEs } } OPTIONAL,
    . . .
RL-Specific-EDCH-Information-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-TransportBearerNotRequestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator
                                                                                                                          PRESENCE optional }, --
FDD only
    . . .
RL-Specific-EDCH-Info ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF RL-Specific-EDCH-InfoItem
RL-Specific-EDCH-InfoItem ::= SEQUENCE {
    eDCH-MACdFlow-ID
                                        EDCH-MACdFlow-ID,
   bindingID
                                        BindingID
                                                            OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    transportLayerAddress
                                        TransportLayerAddress
                                                                     OPTIONAL,
    -- Shall be ignored if bearer establishment with ALCAP.
    iE-Extensions
                            ProtocolExtensionContainer { { RL-Specific-EDCH-Info-Item-ExtIEs } } OPTIONAL,
    . . .
٦
RL-Specific-EDCH-Info-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
RLC-Mode
           ::= ENUMERATED {
    rLC-AM,
    rLC-UM,
    . . .
}
RNC-ID
                        ::= INTEGER (0..4095)
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)
Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [23]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [24]
RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
```

```
Received-total-wide-band-power
                                            ::= INTEGER (0..621)
-- According to mapping in [23]
RT-Load-Value-IncrDecrThres ::= INTEGER(0..100)
RT-Load-Value ::= INTEGER(0..100)
RTLoadValue ::= SEQUENCE {
        uplinkRTLoadValue
                                INTEGER(0..100),
        downlinkRTLoadValue
                                INTEGER(0..100)
}
RxTimingDeviationForTA
                                    ::= INTEGER (0..127)
-- As specified in [5], ch. 6.2.7.6
-- For 1.28Mcps TDD this IE must be set to 0.
RxTimingDeviationForTAext
                                        ::= INTEGER (0..511)
-- As specified in [5] [3.84 Mcps TDD only]
RxTimingDeviationForTA768
                                        ::= INTEGER (0.. 1023)
-- As specified in [5]
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
--According to mapping in [24] [3.84Mcps TDD only]
Rx-Timing-Deviation-Value-ext ::= INTEGER (0..32767)
--According to mapping in [24] [3.84Mcps TDD only]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
--According to mapping in [24] [1.28Mcps TDD only]
Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
--According to mapping in [24] [7.68Mcps TDD only]
RefBeta ::= INTEGER (-15..16)
-- S
SAC
                    ::= OCTET STRING (SIZE (2))
SAI ::= SEQUENCE {
    pLMN-Identity
                        PLMN-Identity,
    lac
                        LAC,
    SAC
                        SAC,
    iE-Extensions
                        ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
SAI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SAT-ID ::= INTEGER (0..63)
SCH-TimeSlot
                            ::= INTEGER (0..6)
```

```
ScaledAdjustmentRatio
                                ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
SchedulingInformation
                                ::= ENUMERATED {
    included,
    not-included
Secondary-CCPCH-Info-TDD::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-CCPCH-TDD-InformationList
                                             Secondary-CCPCH-TDD-InformationList,
    fACH-InformationList
                                             FACH-InformationList,
    pCH-InformationList
                                             PCH-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CPICH-Information ::= SEQUENCE {
  dl-ScramblingCode
                                             DL-ScramblingCode,
   fDD-DL-ChannelisationCodeNumber
                                             FDD-DL-ChannelisationCodeNumber,
   iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-CPICH-Information-ExtIEs } } OPTIONAL,
    . . .
Secondary-CPICH-Information-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CPICH-Information-Change ::= CHOICE {
                                     Secondary-CPICH-Information,
new-secondary-CPICH
secondary-CPICH-shall-not-be-used
                                  NULL,
. . .
}
Secondary-LCR-CCPCH-Info-TDD::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-LCR-CCPCH-TDD-InformationList Secondary-LCR-CCPCH-TDD-InformationList,
    fACH-InformationList
                                             FACH-InformationList,
    pCH-InformationList
                                             PCH-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-LCR-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
Secondary-CCPCH-Info-TDD768::= SEQUENCE {
    dl-TFCS
                                             TFCS.
    tFCI-Coding
                                             TFCI-Coding.
    secondary-CCPCH-TDD-InformationList768
                                                 Secondary-CCPCH-TDD-InformationList768,
    fACH-InformationList
                                             FACH-InformationList,
    pCH-InformationList
                                             PCH-InformationList,
                                             ProtocolExtensionContainer { { Secondary-CCPCH-Info-TDD768-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-CCPCH-Info-TDD768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
Secondary-CCPCH-TDD-InformationList ::= SEOUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-InformationItem
Secondary-CCPCH-TDD-InformationItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    secondary-CCPCH-TDD-Code-Information
                                                         Secondary-CCPCH-TDD-Code-Information,
    tDD-PhysicalChannelOffset
                                    TDD-PhysicalChannelOffset,
    repetitionLength
                                    RepetitionLength,
    repetitionPeriod
                                    RepetitionPeriod,
                                    ProtocolExtensionContainer { { Secondary-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-LCR-CCPCH-TDD-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-InformationItem
Secondary-LCR-CCPCH-TDD-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                                 TimeSlotLCR,
    midambleShiftLCR
                                                 MidambleShiftLCR,
    tFCI-Presence
                                                 TFCI-Presence,
    secondary-LCR-CCPCH-TDD-Code-Information
                                                 Secondary-LCR-CCPCH-TDD-Code-Information,
    tDD-PhysicalChannelOffset
                                                 TDD-PhysicalChannelOffset,
                                                 RepetitionLength,
    repetitionLength
    repetitionPeriod
                                                 RepetitionPeriod,
    iE-Extensions
                                                 ProtocolExtensionContainer { { Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-TDD-InformationList768 ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs768)) OF Secondary-CCPCH-TDD-InformationItem768
Secondary-CCPCH-TDD-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
```

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```
midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768,
    tFCI-Presence
                                    TFCI-Presence,
    secondary-CCPCH-TDD-Code-Information768
                                                         Secondary-CCPCH-TDD-Code-Information768,
    tDD-PhysicalChannelOffset
                                    TDD-PhysicalChannelOffset,
    repetitionLength
                                    RepetitionLength,
    repetitionPeriod
                                    RepetitionPeriod,
    iE-Extensions
                                    ProtocolExtensionContainer { { Secondary-CCPCH-TDD-InformationItem768-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-TDD-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
۱
Secondary-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-Code-InformationItem
Secondary-CCPCH-TDD-Code-InformationItem ::= SEQUENCE
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
                                    ProtocolExtensionContainer { {Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-LCR-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-Code-InformationItem
Secondary-LCR-CCPCH-TDD-Code-InformationItem ::= SEQUENCE {
    tDD-ChannelisationCodeLCR
                                    TDD-ChannelisationCodeLCR,
                                    TDD-DL-DPCH-TimeSlotFormat-LCR,
    s-CCPCH-TimeSlotFormat-LCR
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs } } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-TDD-Code-Information768 ::= SEOUENCE ( SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-TDD-Code-InformationItem768
Secondary-CCPCH-TDD-Code-InformationItem768 ::= SEQUENCE {
    tDD-ChannelisationCode768
                                        TDD-ChannelisationCode768,
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-CCPCH-TDD-Code-InformationItem768-ExtIEs} } OPTIONAL,
    . . .
Secondary-CCPCH-TDD-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeslot-related,
```

```
. . .
3
Seed ::= INTEGER (0..63)
Service-ID ::= OCTET STRING (SIZE (3))
SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER(0..614399)
SFNSFN-TDD ::= INTEGER(0..40961)
SFNSFN-TDD768 ::= INTEGER(0..81923)
GA-AccessPointPositionwithOptionalAltitude ::= SEQUENCE
    geographicalCoordinate
                                                GeographicalCoordinate,
    altitudeAndDirection
                                                GA-AltitudeAndDirection OPTIONAL,
   iE-Extensions
                                                ProtocolExtensionContainer { { GA-AccessPointPositionwithOptionalAltitude-ExtIEs } } OPTIONAL,
    . . .
GA-AccessPointPositionwithOptionalAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
SFNSFNDriftRate ::= INTEGER (-100..100)
-- 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,
                                    ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
}
SFNSFNMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation
                                                                                         SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
       SEQUENCE ·
           uC-ID
                        UC-ID,
           sFNSFNValue
                                        SFNSFNValue,
           sFNSFNQuality
                                        SFNSFNQuality
                                                                         OPTIONAL,
            sFNSFNDriftRate
                                        SFNSFNDriftRate,
```

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```

```
sFNSFNDriftRateQuality
                                         SFNSFNDriftRateQuality
                                                                      OPTIONAL,
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
            iE-Extensions
                                         ProtocolExtensionContainer { {
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs} }
                                                                                                   OPTIONAL,
            . . .
        },
    unsuccessfull Neighbouring {\tt CellsFNSFNObservedTimeDifferenceMeasurementInformation}
                                                                                           SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEOUENCE {
            uC-ID
                        UC-ID,
            iE-Extensions
                                 ProtocolExtensionContainer { {    UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs } }
                OPTIONAL,
            . . .
       },
    iE-Extensions
                        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs } }
                                                                                                              OPTIONAL.
    . . .
}
SFNSFNMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                             SFN,
    sFNSFNTimeStamp-TDD
                            SFNSFNTimeStamp-TDD,
    . . .
}
SFNSFNTimeStamp-TDD::= SEQUENCE {
    sFN
                        SFN,
    timeSlot
                        TimeSlot,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} } OPTIONAL,
    . . .
}
SFNSFNTimeStamp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
```

```
SFNSFNValue ::= CHOICE {
    sFNSFN-FDD
                    SFNSFN-FDD,
    sFNSFN-TDD
                    SFNSFN-TDD,
                                    -- LCR & HCR TDD
    ...,
    sFNSFN-TDD768
                        SFNSFN-TDD768
}
SID ::= INTEGER (0..maxNrOfPDUIndexes-1)
SIR-Error-Value
                       ::= INTEGER (0..125)
SIR-Error-Value-IncrDecrThres
                                        ::= INTEGER (0..124)
SIR-Value
                       ::= INTEGER (0..63)
-- According to mapping in [11]/[14]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SixteenQAM-UL-Operation-Indicator ::= ENUMERATED {
    activate,
    deactivate
}
SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
    allowed,
    not-allowed
}
SixtyfourQAM-DL-SupportIndicator ::= ENUMERATED {
    sixteenQAM-DL-supported,
    sixteenQAM-DL-not-supported
}
SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
    sixteenQAM-DL-used,
    sixteenQAM-DL-not-used
}
SignatureSequenceGroupIndex ::= INTEGER (0..19)
SNA-Information ::= SEQUENCE {
   pLMN-Identity PLMN-Identity,
   listOfSNAs
                        ListOfSNAs
                                                                         OPTIONAL,
                        ProtocolExtensionContainer { { SNA-Information-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
}
SNA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
ListOfSNAs ::= SEQUENCE (SIZE (1.. maxNrOfSNAs)) OF SNACode
SNACode ::= INTEGER (0..65535)
SpecialBurstScheduling ::= INTEGER (1..256)
S-RNTI
                        ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
S-RNTI-Group
                        ::= SEQUENCE {
                            S-RNTI,
    sRNTI
    sRNTI-BitMaskIndex
                            ENUMERATED {
       b1,
       b2,
       b3,
       b4,
       b5,
       b6,
       b7,
       b8,
        b9,
       b10,
       b11,
       b12,
       b13,
       b14,
       b15,
       b16,
       b17,
       b18,
       b19,...
SRB-Delay ::= INTEGER(0...7,...)
SSDT-SupportIndicator ::= ENUMERATED {
    not-Used-sSDT-supported,
    sSDT-not-supported
}
STTD-SupportIndicator ::= ENUMERATED {
    sTTD-Supported,
    sTTD-not-Supported
}
Support-8PSK ::= ENUMERATED {
    v8PSK-Supported
}
Support-PLCCH ::= ENUMERATED {
    vPLCCH-Supported
```

}

}

3

```
SyncCase ::= INTEGER (1..2,...)
SynchronisationConfiguration ::= SEQUENCE {
    n-INSYNC-IND
                            INTEGER (1..256),
                            INTEGER (1..256),
    n-OUTSYNC-IND
    t-RLFAILURE
                          INTEGER (0..255),
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s
                          ProtocolExtensionContainer { { SynchronisationConfiguration-ExtIEs } }
                                                                                                      OPTIONAL,
    iE-Extensions
    . . .
SynchronisationConfiguration-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SYNC-UL-ProcParameters ::= SEQUENCE
    maxSYNC-UL-transmissions
                                     ENUMERATED {v1, v2, v4, v8, ...},
                                    INTEGER (0..3, ...),
    powerRampStep
    . . .
-- T
T1 ::= ENUMERATED {v10,v20,v30,v40,v50,v60,v70,v80,v90,v100,v120,v140,v160,v200,v300,v400,...}
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,
```

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chCode16div9, chCode16div10, chCode16div11, chCode16div12, chCode16div13, chCode16div14, chCode16div15, chCode16div16, . . . } 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, chCode32div11,

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chCode32div12, chCode32div13. chCode32div14. chCode32div15, chCode32div16, chCode32div17, chCode32div18, chCode32div19, chCode32div20, chCode32div21, chCode32div22, chCode32div23, chCode32div24, chCode32div25, chCode32div26, chCode32div27, chCode32div28, chCode32div29, chCode32div30, chCode32div31, chCode32div32, . . . 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 . . . } TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifyItem TDD-DCHs-to-ModifyItem ::= SEQUENCE { ul-FP-Mode UL-FP-Mode OPTIONAL, toAWS TOAWS OPTIONAL, TOAWE OPTIONAL, toAWE transportBearerRequestIndicator TransportBearerRequestIndicator, dCH-SpecificInformationList TDD-DCHs-to-ModifySpecificInformationList, ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs } } OPTIONAL, iE-Extensions . . . 3 TDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-TnlQos TnlQos PRESENCE optional }, CRITICALITY ignore EXTENSION . . . } TDD-DCHs-to-ModifySpecificInformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifySpecificItem TDD-DCHs-to-ModifySpecificItem ::= 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 OPTIONAL,
    frameHandlingPriority
    iE-Extensions
                                     ProtocolExtensionContainer { {TDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    . . .
3
TDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                             PRESENCE optional }
     ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                 PRESENCE optional },
    . . .
}
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 } } OPTIONAL,
    iE-Extensions
    . . .
TDD-DL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) 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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-Information768 ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-InformationItem768
TDD-DL-Code-InformationItem768 ::= SEQUENCE {
    dPCH-TD
                                    DPCH-ID,
                                    TDD-ChannelisationCode768,
    tDD-ChannelisationCode768
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-DL-Code-InformationItem768-ExtIEs } } OPTIONAL,
    . . .
}
TDD-DL-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
```

```
qPSK
                                QPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
                                EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
    . . .
OPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)
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,
    . . .
}
TDD-UL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem
TDD-UL-Code-InformationItem ::= SEQUENCE {
    dPCH-TD
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    iE-Extensions
                                    ProtocolExtensionContainer { {TDD-UL-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
}
TDD-UL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) 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,
                                             ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
}
```

```
TDD-UL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
TDD-UL-Code-Information768 ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs768)) OF TDD-UL-Code-InformationItem768
TDD-UL-Code-InformationItem768 ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode768
                                    TDD-ChannelisationCode768,
    iE-Extensions
                                    ProtocolExtensionContainer { { TDD-UL-Code-InformationItem768-ExtIEs } } OPTIONAL,
    . . .
TDD-UL-Code-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
                                OPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    qPSK
                                EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
    eightPSK
    . . .
}
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 ::= ENUMERATED {
    normal,
    not-Used-split
}
-- The value "Not Used" shall not be used by the SRNC. The procedure shall be rejected by the DRNC if the value "Not Used" is received.
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)
TimeSlotLCR ::= INTEGER (0..6)
TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
}
SynchronisationIndicator ::= ENUMERATED {
    timingMaintainedSynchronisation,
    . . .
}
TMGI ::= SEQUENCE {
                PLMN-Identity,
    plmn-id
    service-id Service-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { { TMGI-ExtIEs} }
                                                                                         OPTIONAL,
    . . .
TMGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TnlOos ::= CHOICE {
                                DsField,
    dsField
    genericTrafficCategory
                                GenericTrafficCategory,
    . . .
}
TOAWE
                       ::= INTEGER (0..2559)
TOAWS
                       ::= INTEGER (0..1279)
TraceDepth
                                ::= ENUMERATED {
   minimum,
   medium,
    maximum,
    . . .
}
TraceRecordingSessionReference ::= INTEGER (0..65535)
TraceReference
                                ::= OCTET STRING (SIZE (2..3))
TrafficClass ::= ENUMERATED {
    conversational,
    streaming,
    interactive,
    background,
    . . .
```

```
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
       tGPSID
                        TGPSID,
       t.GSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength OPTIONAL,
        tGD
                        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 value of the UL/DL mode IE is "DL only" or "UL/DL"
                                            Uplink-Compressed-Mode-Method
       uplink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE shall be present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
        dL-FrameType
                            DL-FrameType,
        delta-SIR1
                        DeltaSIR,
        delta-SIR-after1 DeltaSIR,
        delta-SIR2
                       DeltaSIR
                                    OPTIONAL,
        delta-SIR-after2 DeltaSIR OPTIONAL,
                                ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
       iE-Extensions
        . . .
Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Transmission-Gap-Pattern-Sequence-ScramblingCode-Information
                                                               ::= ENUMERATED{
   code-change,
   nocode-change
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEOUENCE {
       tGPSID
                        TGPSID,
        tGPRC
                        TGPRC,
        tGCFN
                        CFN,
        iE-Extensions
                            ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        . . .
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TransmissionMode
                    ::=ENUMERATED {
   p-t-p,
    p-t-m,
   not-provided,
    . . .
```

. . .

}

```
TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20.
    msec-40,
    msec-80,
    . . .
TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    . . .
3
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- according to mapping in [23] and [24]
Transmitted-Carrier-Power-Value-IncrDecrThres ::= INTEGER(0..100)
-- according to mapping in [23] and [24]
Transport-Block-Size-Index ::= INTEGER(1..maxNrOfHS-DSCHTBSs)
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)
    predictedTUTRANGANSSDeviationLimit
                                             INTEGER(1..256)
                             ProtocolExtensionContainer { { TUTRANGANSSMeasurementThresholdInformation-ExtlEs } }
    ie-Extensions
    . . .
}
```

TUTRANGANSSMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

OPTIONAL,

OPTIONAL.

OPTIONAL,

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```
TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
    LUTRANGANSS
                                    TUTRANGANSS.
    tUTRANGANSSOuality
                                     INTEGER (0..255)
                                                                                                                         OPTIONAL.
    tUTRANGANSSDriftRate
                                    INTEGER(-50..50),
    tUTRANGANSSDriftRateOuality
                                    INTEGER(0..50)
                                                                                                                         OPTIONAL,
    ie-Extensions
                                     ProtocolExtensionContainer { { TUTRANGANSSMeasurementValueInformation-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
TUTRANGANSSMeasurementValueInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPS ::= SEOUENCE {
    ms-part
                INTEGER (0..16383),
    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,
    . . .
3
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                            TUTRANGPSChangeLimit
                                                                                      OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                             PredictedTUTRANGPSDeviationLimit
                                                                                      OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
}
TUTRANGPSMeasurementThresholdInformation-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
        tUTRANGPS
                                         TUTRANGPS,
        tUTRANGPSQuality
                                         TUTRANGPSQuality
                                                                          OPTIONAL,
        tUTRANGPSDriftRate
                                         TUTRANGPSDriftRate,
        tUTRANGPSDriftRateQuality
                                         TUTRANGPSDriftRateQuality
                                                                          OPTIONAL,
        iEe-Extensions
                                         ProtocolExtensionContainer { { TUTRANGPSMeasurementValueInformationItem-ExtIEs } }
                                                                                                                               OPTIONAL,
        . . .
```

}

```
TUTRANGPSMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0.. 255/16 chip
TransportBearerID
                        ::= INTEGER (0..4095)
TransportBearerRequestIndicator
                                    ::= ENUMERATED {
    bearer-requested,
    bearer-not-requested,
    . . .
3
TransportBearerNotRequestedIndicator
                                             ::= ENUMERATED {
    transport-bearer-shall-not-be-established,
    transport-bearer-may-not-be-established
}
TransportBearerNotSetupIndicator
                                         ::= ENUMERATED {
    transport-bearer-not-setup
}
TransportBlockSize
                            ::= INTEGER (0..5000)
-- Unit is bits
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE {
       betaC
                                BetaCD,
        betaD
                                BetaCD,
                                RefTFCNumber
        refTFCNumber
                                                 OPTIONAL,
                                ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
       iE-Extensions
        . . .
    },
    refTFCNumber
                            RefTFCNumber,
    . . .
SignalledGainFactors-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS ::= SEQUENCE {
    tFCSvalues
                        CHOICE {
        no-Split-in-TFCI
                                     TFCS-TFCSList,
       not-Used-split-in-TFCI
                                    NULL,
        -- This choice shall never be made by the SRNC and the DRNC shall consider the procedure as failed if it is received.
        . . .
    },
    iE-Extensions
                        ProtocolExtensionContainer { { TFCS-ExtIEs} }
                                                                              OPTIONAL,
```

```
. . .
}
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEOUENCE {
       CTFC
                            TFCS-CTFC,
       tFC-Beta
                      TransportFormatCombination-Beta
                                                            OPTIONAL,
       -- The IE shall be present if the TFCS concerns a UL DPCH [FDD - or PRACH channel in FDD]
                            ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
       iE-Extensions
                                                                                         OPTIONAL,
    . . .
}
TFCS-TFCSList-ExtIEs RNSAP-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)
}
TransportFormatSet ::= SEQUENCE {
    dynamicParts
                            TransportFormatSet-DynamicPartList,
    semi-staticPart
                            TransportFormatSet-Semi-staticPart,
   iE-Extensions
                            ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    . . .
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
   SEQUENCE {
       nrOfTransportBlocks
                                NrOfTransportBlocks,
       transportBlockSize
                                TransportBlockSize
                                                        OPTIONAL
        -- This IE shall be present if nrOfTransportBlocks is greater than 0 --,
        mode
                            TransportFormatSet-ModeDP,
                                ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
       iE-Extensions
TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
TransportFormatSet-ModeDP ::= CHOICE {
    t.dd
                        TDD-TransportFormatSet-ModeDP,
    notApplicable
                        NULL,
    . . .
}
TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
    transmissionTimeIntervalInformation
                                            TransmissionTimeIntervalInformation
                                                                                      OPTIONAL,
    -- This IE shall be present if the "Transmission Time Interval" of the "Semi-static Transport Format Information" is "dynamic". Otherwise it is
absent.
                                             ProtocolExtensionContainer { { TDD-TransportFormatSet-ModeDP-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TDD-TransportFormatSet-ModeDP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
    SEOUENCE {
        transmissionTimeInterval
                                    TransmissionTimeIntervalDynamic,
                                ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
TransmissionTimeIntervalInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [11]/[14]
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
    cell-based,
    ue-based,
    . . .
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTime
                            TransmissionTimeIntervalSemiStatic,
    channelCoding
                            ChannelCodingType,
    codingRate
                        CodingRate
                                                 OPTIONAL
    -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute
                                RateMatchingAttribute,
    cRC-Size
                        CRC-Size,
    mode
                        TransportFormatSet-ModeSSP
    iE-Extensions
                            ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs } } OPTIONAL,
    . . .
```

```
TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
TransportFormatSet-ModeSSP ::= CHOICE {
    tdd
                    SecondInterleavingMode,
    notApplicable
                            NULL,
    . . .
}
TransportLayerAddress
                                 ::= BIT STRING (SIZE(1..160, ...))
TrCH-SrcStatisticsDescr
                            ::= ENUMERATED {
    speech,
    rRC,
    unknown,
    . . .
}
TSN-Length ::= ENUMERATED {
    tsn-6bits,
    tsn-9bits
}
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
TSTD-Support-Indicator ::= ENUMERATED {
    tSTD-supported,
    tSTD-not-supported
}
TxDiversityIndicator
                       ::= ENUMERATED {
    true,
    false
}
TypeOfError ::= ENUMERATED {
    not-understood,
    missing,
    . . .
}
-- U
UARFCN
                        ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See [7], [43]
UDRE ::= ENUMERATED {
    lessThan1,
    between1-and-4,
    between4-and-8,
    over8,
```

```
. . .
}
UE-Capabilities-Info ::= SEQUENCE {
    hSDSCH-Physical-Layer-Category
                                         INTEGER (1..64,...),
    iE-Extensions
                                         ProtocolExtensionContainer { { UE-Capabilities-Info-ExtIEs } }
                                                                                                               OPTIONAL,
    . . .
}
UE-Capabilities-Info-ExtIEs RNSAP-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
                                                             CRITICALITY reject
                                                                                      EXTENSION Number-Of-Supported-Carriers
    PRESENCE optional },
    . . .
3
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
UEIdentity
                            ::= CHOICE {
    imsi
                IMSI,
    imei
                IMEI,
    imeisv
                IMEISV,
    . . .
```

}

```
UEMeasurementHysteresisTime ::= INTEGER (0..15)
    -- Unit dB
    -- Range 0..7.5 dB
    -- Step 0.5 dB
UEMeasurementParameterModAllow ::= ENUMERATED {
    parameterModificationAllowed,
    . . .
UEMeasurementReportCharacteristics ::= CHOICE {
    periodic
                        UEMeasurementReportCharacteristicsPeriodic,
                        UEMeasurementReportCharacteristicsEvent1h,
    event1h
    event1i
                        UEMeasurementReportCharacteristicsEvent1i,
    event6a
                        UEMeasurementReportCharacteristicsEvent6a,
                        UEMeasurementReportCharacteristicsEvent6b,
    event6b
    event6c
                        UEMeasurementReportCharacteristicsEvent6c,
                        UEMeasurementReportCharacteristicsEvent6d,
    event6d
    ...,
    extension-ReportCharacteristics
                                        UEMeasurementReportCharacteristics-Extension
UEMeasurementReportCharacteristicsEvent1h ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    uEMeasurementHysteresisTime UEMeasurementHysteresisTime,
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent1h-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UEMeasurementReportCharacteristicsEvent1h-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent1i ::= SEQUENCE {
                                UEMeasurementThreshold,
    uEMeasurementTreshold
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    uEMeasurementHysteresisTime UEMeasurementHysteresisTime,
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEventli-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UEMeasurementReportCharacteristicsEvent1i-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent6a ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6a-ExtIEs } } OPTIONAL,
    . . .
```

```
UEMeasurementReportCharacteristicsEvent6a-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent6b ::= SEQUENCE {
    uEMeasurementTreshold
                                UEMeasurementThreshold,
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
    iE-Extensions
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6b-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsEvent6b-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent6c ::= SEQUENCE {
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6c-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UEMeasurementReportCharacteristicsEvent6c-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsEvent6d ::= SEQUENCE {
    uEMeasurementTimeToTrigger UEMeasurementTimeToTrigger,
                                ProtocolExtensionContainer { { UEMeasurementReportCharacteristicsEvent6d-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
UEMeasurementReportCharacteristicsEvent6d-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristicsPeriodic ::= SEQUENCE
                            UEMeasurementReportCharacteristicsPeriodicAmountofReporting,
    amountofReporting
    reportingInterval
                            UEMeasurementReportCharacteristicsPeriodicReportingInterval,
    iE-Extensions
                            ProtocolExtensionContainer { {UEMeasurementReportCharacteristicsPeriodic-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementReportCharacteristicsPeriodicAmountofReporting::= ENUMERATED {
    r1,
    r2,
    r4,
    r8,
    r16.
    r32,
    r64,
    rInfinity
```

```
UEMeasurementReportCharacteristicsPeriodicReportingInterval::= ENUMERATED {
    r250.
    r500.
    r1000,
    r2000,
    r3000,
    r4000,
    r6000,
    r8000,
    r12000,
    r16000,
    r20000,
    r24000,
    r28000,
    r32000,
    r64000
UEMeasurementReportCharacteristicsPeriodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementReportCharacteristics-Extension ::= ProtocolIE-Single-Container {{ UEMeasurementReportCharacteristics-ExtensionIE }}
UEMeasurementReportCharacteristics-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
}
UEMeasurementThreshold
                               ::= CHOICE {
                                   UEMeasurementThresholdDLTimeslotISCP,
    timeslotISCP
    uETransmitPower
                                    UEMeasurementThresholdUETransmitPower,
    ...,
    extension-UEMeasurementThreshold
                                        UEMeasurementThreshold-Extension
}
UEMeasurementThresholdDLTimeslotISCP ::=
                                            INTEGER(-115..-25)
UEMeasurementThresholdUETransmitPower ::=
                                            INTEGER(-50..33)
UEMeasurementThreshold-Extension
                                  ::= ProtocolIE-Single-Container {{ UEMeasurementThreshold-ExtensionIE }}
UEMeasurementThreshold-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
}
UEMeasurementTimeslotInfoHCR::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementTimeslotInfoHCR-IEs
UEMeasurementTimeslotInfoHCR-IEs ::= SEQUENCE {
   timeSlot
                                    TimeSlot,
   burstType
                                    UEMeasurementTimeslotInfoHCRBurstType,
                                    ProtocolExtensionContainer { { UEMeasurementTimeslotInfoHCR-IEs-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
```

```
UEMeasurementTimeslotInfoHCRBurstType ::= ENUMERATED {
    type1,
    type2,
    type3,
    . . .
}
UEMeasurementTimeslotInfoHCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementTimeslotInfoLCR::= SEQUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementTimeslotInfoLCR-IEs
UEMeasurementTimeslotInfoLCR-IEs ::= SEQUENCE {
    timeSlot
                                     TimeSlotLCR,
    iE-Extensions
                                     ProtocolExtensionContainer { { UEMeasurementTimeslotInfoLCR-IEs-ExtIEs } }
                                                                                                                    OPTIONAL,
    . . .
}
UEMeasurementTimeslotInfoLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementTimeslotInfo768::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementTimeslotInfo768-IEs
UEMeasurementTimeslotInfo768-IEs ::= SEQUENCE {
    timeSlot
                                     TimeSlot,
    burstType
                                     UEMeasurementTimeslotInfo768BurstType,
    iE-Extensions
                                     ProtocolExtensionContainer { { UEMeasurementTimeslotInfo768-IEs-ExtIEs } }
                                                                                                                    OPTIONAL,
    . . .
}
UEMeasurementTimeslotInfo768BurstType ::= ENUMERATED {
    type1,
    type2,
    type3,
    . . .
}
UEMeasurementTimeslotInfo768-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementTimeToTrigger ::= ENUMERATED {
    r0,
    r10,
    r20,
    r40,
    r60,
    r80,
    r100,
    r120,
    r160,
```

```
r200,
    r240.
    r320.
    r640,
    r1280.
    r2560,
    r5000
UEMeasurementType ::= ENUMERATED {
    primary-CCPCH-RSCP,
    dL-Timeslot-ISCP,
    uE-Transmitted-power,
    . . .
}
UEMeasurementValue ::= CHOICE {
    uE-Transmitted-Power
                                UE-MeasurementValue-UE-Transmitted-Power,
    primary-CCPCH-RSCP
                                UE-MeasurementValue-Primary-CCPCH-RSCP,
    dL-Timeslot-ISCP
                                UE-MeasurementValue-DL-Timeslot-ISCP,
    . . . .
    extension-UEMeasurementValue
                                        UEMeasurementValue-Extension
}
UE-MeasurementValue-UE-Transmitted-Power ::= SEQUENCE {
    uEMeasurementTransmittedPowerListHCR
                                                 UEMeasurementValueTransmittedPowerListHCR
                                                                                              OPTIONAL.
-- Mandatory for 3.84Mcps TDD, Not applicable for 1.28Mcps TDD or 7.68Mcps TDD
    uEMeasurementTransmittedPowerListLCR
                                                 UEMeasurementValueTransmittedPowerListLCR OPTIONAL,
-- Mandatory for 1.28Mcps TDD, Not applicable for 3.84Mcps TDD or 7.68Mcps TDD
    iE-Extensions
                                                 ProtocolExtensionContainer { { UE-MeasurementValue-UE-Transmitted-Power-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
UE-MeasurementValue-UE-Transmitted-Power-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UEMeasurementValueTransmittedPowerList768
                                                                 CRITICALITY ignore EXTENSION UEMeasurementValueTransmittedPowerList768
    PRESENCE optional },
    . . .
}
UEMeasurementValueTransmittedPowerListHCR ::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTransmittedPowerListHCR-IEs
UEMeasurementValueTransmittedPowerListHCR-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                    INTEGER(0..104),
    uETransmitPower
    -- mapping according to [24], values 0..20 not used
                                                 ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerListHCR-IEs-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UEMeasurementValueTransmittedPowerListHCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
UEMeasurementValueTransmittedPowerListLCR ::= SEQUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementValueTransmittedPowerListLCR-IEs
UEMeasurementValueTransmittedPowerListLCR-IEs ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR.
    uETransmitPower
                                    INTEGER(0..104),
    -- mapping according to [24], values 0..20 not used
                                                ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerListLCR-IES-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UEMeasurementValueTransmittedPowerListLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTransmittedPowerList768 ::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTransmittedPowerList768-IEs
UEMeasurementValueTransmittedPowerList768-IEs ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    uETransmitPower
                                    INTEGER(0..104),
    -- mapping according to [24], values 0..20 not used
                                                ProtocolExtensionContainer { { UEMeasurementValueTransmittedPowerList768-IES-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UEMeasurementValueTransmittedPowerList768-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UE-MeasurementValue-Primary-CCPCH-RSCP::= SEQUENCE {
    primaryCCPCH-RSCP
                                        PrimaryCCPCH-RSCP
                                                                         OPTIONAL,
   primaryCCPCH-RSCP-Delta
                                        PrimaryCCPCH-RSCP-Delta
                                                                         OPTIONAL,
   iE-Extensions
                                        ProtocolExtensionContainer { { UE-MeasurementValue-Primary-CCPCH-RSCP-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
UE-MeasurementValue-Primary-CCPCH-RSCP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UE-MeasurementValue-DL-Timeslot-ISCP ::= SEQUENCE {
    uEMeasurementTimeslotISCPListHCR
                                            UEMeasurementValueTimeslotISCPListHCR OPTIONAL,
-- Mandatory for 3.84Mcps TDD, Not applicable for 1.28Mcps TDD or 7.68Mcps TDD
    uEMeasurementTimeslotISCPListLCR
                                            UEMeasurementValueTimeslotISCPListLCR
                                                                                    OPTIONAL,
-- Mandatory for 1.28Mcps TDD, Not applicable for 3.84Mcps TDD or 7.68Mcps TDD
    iE-Extensions
                                                ProtocolExtensionContainer { { UE-MeasurementValue-DL-Timeslot-ISCP-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
}
UE-MeasurementValue-DL-Timeslot-ISCP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UEMeasurementValueTimeslotISCPList768
                                                            CRITICALITY ignore EXTENSION UEMeasurementValueTimeslotISCPList768
                                                                                                                                       PRESENCE
optional },
```

```
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```

```
. . .
}
UEMeasurementValueTimeslotISCPListHCR ::= SEOUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTimeslotISCPListHCR-IEs
UEMeasurementValueTimeslotISCPListHCR-IEs ::= SEQUENCE {
    timeSlot
                                   TimeSlot,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
   iE-Extensions
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPListHCR-IEs-ExtIEs } } OPTIONAL,
    . . .
UEMeasurementValueTimeslotISCPListHCR-IES-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UEMeasurementValueTimeslotISCPListLCR ::= SEOUENCE (SIZE (1..maxNrOfTsLCR)) OF UEMeasurementValueTimeslotISCPListLCR-IEs
UEMeasurementValueTimeslotISCPListLCR-IEs ::= SEQUENCE {
    timeSlotLCR
                                   TimeSlotLCR,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
   iE-Extensions
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPListLCR-IEs-ExtIEs } OPTIONAL,
    . . .
UEMeasurementValueTimeslotISCPListLCR-IEs-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementValueTimeslotISCPList768 ::= SEQUENCE (SIZE (1..maxNrOfTS)) OF UEMeasurementValueTimeslotISCPList768-IEs
UEMeasurementValueTimeslotISCPList768-IEs ::= SEQUENCE {
   timeSlot
                                   TimeSlot,
    dL-TimeslotISCP
                                    DL-TimeslotISCP,
                                    ProtocolExtensionContainer { { UEMeasurementValueTimeslotISCPList768-IEs-ExtIEs } OPTIONAL,
   iE-Extensions
    . . .
}
UEMeasurementValueTimeslotISCPList768-IES-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementValue-Extension := ProtocolIE-Single-Container {{ UEMeasurementValue-ExtensionIE }}
UEMeasurementValue-ExtensionIE RNSAP-PROTOCOL-IES ::= {
    . . .
UEMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                               UEMeasurementValueInformationAvailable,
    measurementnotAvailable
                                UEMeasurementValueInformationnotAvailable
}
UEMeasurementValueInformationAvailable::= SEQUENCE
                                UEMeasurementValue,
    uEmeasurementValue
```

```
ProtocolExtensionContainer { { UEMeasurementValueInformationAvailableItem-ExtIEs } }
    ie-Extensions
                                                                                                                          OPTIONAL,
    . . .
}
UEMeasurementValueInformationAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UEMeasurementValueInformationnotAvailable ::= NULL
UE-State ::= CHOICE {
                                                                  Cell-Fach-Pch-State,
    cell-fach-pch
    ura-pch
                                                                  Ura-Pch-State,
    . . .
3
Cell-Fach-Pch-State ::= SEQUENCE {
    d-RNTI
                                     D-RNTI,
                                     ProtocolExtensionContainer { { Cell-Fach-Pch-State-ExtIEs} }
    iE-Extensions
                                                                                                       OPTIONAL,
    . . .
}
Cell-Fach-Pch-State-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Ura-Pch-State ::= SEQUENCE {
    srnc-id
                                     RNC-ID,
    ura-id
                                     URA-ID,
    iE-Extensions
                                     ProtocolExtensionContainer { { Ura-Pch-State-ExtIEs} }
                                                                                                   OPTIONAL,
    . . .
}
Ura-Pch-State-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-SRNC-ID
                                                 CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                                                              PRESENCE optional },
    . . .
}
UL-Delta-T2TP ::= INTEGER (0..6,...)
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}
UL-DPDCHIndicatorEDCH ::= ENUMERATED
    uL-DPDCH-present,
    uL-DPDCH-not-present }
UL-Timeslot-Information::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem
```

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```
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot.
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-Information
                                    TDD-UL-Code-Information,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
ļ
UL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeslotLCR-InformationItem
UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                             TimeSlotLCR,
    midambleShiftLCR
                                            MidambleShiftLCR,
    tFCI-Presence
                                            TFCI-Presence,
    uL-Code-LCR-InformationList
                                        TDD-UL-Code-LCR-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
UL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-PLCCH-Information-UL-TimeslotLCR-Info CRITICALITY ignore
                                                                             EXTENSION PLCCHinformation
                                                                                                           PRESENCE optional },
    . . .
PLCCHinformation ::= SEQUENCE {
    tDD-ChannelisationCode
                                             TDD-ChannelisationCode,
    timeSlotLCR
                                             TimeSlotLCR,
    midambleShiftLCR
                                             MidambleShiftLCR,
    sequenceNumber
                                             PLCCHsequenceNumber,
                                             ProtocolExtensionContainer { { PLCCHinformation-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
PLCCHinformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Timeslot-Information768::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem768
UL-Timeslot-InformationItem768 ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType768
                                        MidambleShiftAndBurstType768,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-Information768
                                        TDD-UL-Code-Information768,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem768-ExtIEs} } OPTIONAL,
    . . .
}
UL-Timeslot-InformationItem768-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-TimeSlot-ISCP-InfoItem
UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot
                                TimeSlot,
    uL-TimeslotISCP
                                UL-TimeslotISCP,
                                ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
UL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeSlot-ISCP-LCR-InfoItem
UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
                                    TimeSlotLCR,
    timeSlotLCR
    iSCP
                                    UL-Timeslot-ISCP-Value,
    iE-Extensions
                                    ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } } OPTIONAL,
    . . .
 }
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-Timeslot-ISCP-Value ::= UL-TimeslotISCP
UL-Timeslot-ISCP-Value-IncrDecrThres ::= INTEGER(0..126)
-- Unit dB. Step 0.5dB
-- e.g. Value 100 means 50dB
UL-TimingAdvanceCtrl-LCR ::= SEQUENCE {
    sync-UL-codes-bitmap
                                                BIT STRING (SIZE(8)),
    fPACH-info
                                                FPACH-Information,
    prxUpPCHdes
                                                INTEGER (-120 .. -58, ...),
    syncUL-procParameter
                                                SYNC-UL-ProcParameters,
    mMax
                                                INTEGER (1..32),
    . . .
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2.
    higher-layer-scheduling,
    . . .
}
UL-SIR
                       ::= INTEGER (-82..173)
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.
```

```
UC-ID ::= SEQUENCE {
    rNC-ID
                        RNC-ID.
    c-ID
                        C-ID.
    iE-Extensions
                            ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    . . .
}
UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                                CRITICALITY reject
                                                         EXTENSION
                                                                     Extended-RNC-ID PRESENCE optional },
    . . .
UL-DPCCH-SlotFormat
                            ::= INTEGER (0..5,...)
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,
                            ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
    iE-Extensions
}
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}
UL-ScramblingCodeNumber
                                ::= INTEGER (0..16777215)
UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
    uL-Synchronisation-StepSize
                                         UL-Synchronisation-StepSize,
    uL-Synchronisation-Frequency
                                             UL-Synchronisation-Frequency,
                                     ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
}
UL-Synchronisation-Parameters-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-Synchronisation-StepSize ::= INTEGER (1..8)
```

```
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UL-TimeslotISCP
                       ::= INTEGER (0..127)
-- According to mapping in [14]
UPPCHPositionLCR ::= INTEGER (0..127)
UpPTSInterferenceValue ::= INTEGER (0..127,...)
Unidirectional-DCH-Indicator := ENUMERATED {
    downlink-DCH-only,
    uplink-DCH-only
}
URA-ID
                        ::= INTEGER (0..65535)
URA-Information ::= SEQUENCE {
    uRA-ID
                                        URA-ID,
    multipleURAsIndicator
                                        MultipleURAsIndicator,
    rNCsWithCellsInTheAccessedURA-List RNCsWithCellsInTheAccessedURA-List OPTIONAL,
                                        ProtocolExtensionContainer { {URA-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
URA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID
                                                CRITICALITY reject EXTENSION Extended-RNC-ID
                                                                                                         PRESENCE optional },
    . . .
}
RNCsWithCellsInTheAccessedURA-List ::= SEQUENCE (SIZE (1..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item
RNCsWithCellsInTheAccessedURA-Item ::= SEQUENCE {
    rNC-ID
                                    RNC-ID,
                                    ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
RNCsWithCellsInTheAccessedURA-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-ID
                       ::= INTEGER (0..255)
USCH-Information ::= SEQUENCE (SIZE (1..maxNoOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                        USCH-ID,
    ul-CCTrCH-ID
                                        CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    rb-Info
                                        RB-Info,
```

iE-Extensions ProtocolExtensionContainer { {USCH-InformationItem-ExtIEs} } OPTIONAL,

}

. . .

USCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

{ :	ID id-TrafficClass	CRITICALITY	ignore	EXTENSION Traf	ficClass	PRESENCE ma	indatory }		
{	ID id-BindingID		CRITICA	LITY ignore	EXTENSION	BindingID	PRESENCE	0	ptional }
Shall be ignored if bearer establishment with ALCAP.									
{	ID id-TransportLayerAddres	s	CRITICA	LITY ignore	EXTENSION	TransportLa	yerAddress	PRESENCE	optional }
Shall be ignored if bearer establishment with ALCAP.									
{	ID id-TnlQos		CRITICALITY ignore		EXTENSION	TnlQos		PRESENCE optional },	

}

User-Plane-Congestion-Fields-Inclusion ::= ENUMERATED { shall-be-included }

--- V --- W --- X --- Y

END

# 9.3.5 Common Definitions

- --- Common definitions - -RNSAP-CommonDataTypes { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN - -- --- Extension constants - -maxPrivateIEs INTEGER ::= 65535 maxProtocolExtensions INTEGER ::= 65535 INTEGER ::= 65535 maxProtocolIEs - --- Common Data Types

```
Criticality := ENUMERATED { reject, ignore, notify }
Presence ::= ENUMERATED { optional, conditional, mandatory }
PrivateIE-ID ::= CHOICE {
             INTEGER (0.. maxPrivateIEs),
   local
                   OBJECT IDENTIFIER
   qlobal
}
ProcedureCode
             ::= INTEGER (0..255)
ProcedureID ::= SEQUENCE {
   procedureCode
                       ProcedureCode,
                    ENUMERATED { tdd, fdd, common, ... }
   ddMode
}
ProtocolIE-ID
            ::= INTEGER (0..maxProtocolIEs)
            ::= CHOICE {
TransactionID
   shortTransActionId INTEGER (0..127),
   longTransActionId INTEGER (0...32767)
}
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }
END
```

9.3.6 Constant Definitions

```
*******
- -
-- Constant definitions
- -
RNSAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
  ProcedureCode,
  ProtocolIE-ID
FROM RNSAP-CommonDataTypes;
- -
```

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-- Elementary Procedures

- -

#### 

id-commonTransportChannelResourcesInitialisation	ProcedureCode		
id-commonTransportChannelResourcesRelease	ProcedureCode		
id-compressedModeCommand	ProcedureCode		
id-downlinkPowerControl	ProcedureCode		
id-downlinkPowerTimeslotControl	ProcedureCode		
id-downlinkSignallingTransfer	ProcedureCode		
id-errorIndication	ProcedureCode		
id-dedicatedMeasurementFailure	ProcedureCode		
id-dedicatedMeasurementInitiation	ProcedureCode		
id-dedicatedMeasurementReporting	ProcedureCode		
id-dedicatedMeasurementTermination	ProcedureCode		
id-paging	ProcedureCode		
id-physicalChannelReconfiguration	ProcedureCode		
id-privateMessage	ProcedureCode		
id-radioLinkAddition	ProcedureCode		
id-radioLinkCongestion	ProcedureCode	::=	34
id-radioLinkDeletion	ProcedureCode		
id-radioLinkFailure	ProcedureCode	::=	16
id-radioLinkPreemption	ProcedureCode	::=	17
id-radioLinkRestoration	ProcedureCode	::=	18
id-radioLinkSetup	ProcedureCode	::=	19
id-relocationCommit	ProcedureCode	::=	20
${\tt id} extsf{-synchronisedRadioLinkReconfigurationCancellation}$	ProcedureCode	::=	21
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::=	22
${\tt id} extsf{-synchronisedRadioLinkReconfigurationPreparation}$	ProcedureCode	::=	23
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode	::=	24
id-uplinkSignallingTransfer	ProcedureCode	::=	25
id-commonMeasurementFailure	ProcedureCode	::=	26
id-commonMeasurementInitiation	ProcedureCode	::=	27
id-commonMeasurementReporting	ProcedureCode	::=	28
id-commonMeasurementTermination	ProcedureCode	::=	29
id-informationExchangeFailure	ProcedureCode	::=	30
id-informationExchangeInitiation	ProcedureCode	::=	31
id-informationReporting	ProcedureCode	::=	32
id-informationExchangeTermination	ProcedureCode	::=	33
id-reset	ProcedureCode	::=	35
id-radioLinkActivation	ProcedureCode	::=	36
id-gERANuplinkSignallingTransfer	ProcedureCode	::=	37
id-radioLinkParameterUpdate	ProcedureCode	::=	38
id-uEMeasurementFailure	ProcedureCode	::=	39
id-uEMeasurementInitiation	ProcedureCode	::=	40
id-uEMeasurementReporting	ProcedureCode	: : =	41
id-uEMeasurementTermination	ProcedureCode	: : =	42
id-iurDeactivateTrace	ProcedureCode	: : =	43
id-iurInvokeTrace	ProcedureCode	: : =	44
id-mBMSAttach	ProcedureCode	::=	45
id-mBMSDetach	ProcedureCode	•••	
id-directInformationTransfer	ProcedureCode		

- -

-- Lists

- -

#### 

maxCellSIB110rSIB12	INTEGER ::= 32
maxCellsMeas	INTEGER ::= 8
maxRateMatching	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsPerRL-1	<pre>INTEGER ::= 239 maxNrofCCTrCH*maxNrOfULTs-1</pre>
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfDPCHsLCRPerRL-1	INTEGER ::= 95 maxNrofCCTrCH*maxNrOfULTsLCR-1
maxNrOfDPCHs768	INTEGER ::= 480
maxNrOfDPCHs768PerRL-1	INTEGER ::= 479
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfMBMSServices	INTEGER ::= 128
maxNrOfActiveMBMSServices	INTEGER ::= 256
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLSets-1	INTEGER ::= 15 maxNrOfRLSets - 1
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfUEs	INTEGER ::= 4096
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfFACHs	INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxIBSEG	INTEGER ::= 16
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfSCCPCHs768	INTEGER ::= 16
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15

maxNrOfLevels	INTEGER ::= 256
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1
maxResetContext	INTEGER ::= 250
maxResetContextGroup	INTEGER ::= 32
maxNrOfHARQProc	INTEGER ::= 8
maxNrOfHSSCCHCodes	INTEGER ::= 4
maxNrOfHSSICHs	INTEGER ::= 4
maxNrOfHSSICHs-1	INTEGER ::= 3
maxNrOfMACdFlows	INTEGER ::= 8
maxNrOfMACdFlows-1	INTEGER ::= 7 maxNrOfMACdFlows - 1
maxNrOfMACdPDUSize	INTEGER ::= 32
maxNrOfPDUIndexes	INTEGER ::= 8
maxNrOfPDUIndexes-1	INTEGER ::= 7 maxNrOfPDUIndexes - 1
maxNrOfPrioQueues	INTEGER ::= 8
maxNrOfPrioQueues-1	INTEGER ::= 7 maxNrOfPrioQueues - 1
maxNrOfSNAs	INTEGER ::= 65536
maxNrOfSatAlmanac-maxNoSat	INTEGER ::= 16
maxNrOfGERANSI	INTEGER ::= 8
maxNrOfInterfaces	INTEGER ::= 16
maxNrofSigSeqERGHICH-1	INTEGER ::= 39
maxNrOfCells	INTEGER ::= 65536
maxNrOfAddFreq	INTEGER ::= 8
maxNrOfCellsPerFreq	INTEGER ::= 65536
maxNrOfEDCHMACdFlows-1	INTEGER ::= 7
maxNrOfEDCH-HARQ-PO-QUANTSTEPs	INTEGER ::= 6
maxNrOfEDPCCH-PO-QUANTSTEPs	INTEGER ::= 8
maxNrOfEDCHHARQProcesses2msEDCH	INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-scheduled	INTEGER ::= 19982
maxNrOfRefETFCIs	INTEGER ::= 8
maxNrOfRefETFCI-PO-QUANTSTEPs	INTEGER ::= 29
maxNrOfEDCHMACdFlows	INTEGER ::= 8
maxNoOfLogicalChannels	INTEGER ::= 16 only maximum 15 can be used
maxNrOfRefBetas	INTEGER ::= 8
maxNrOfEAGCHCodes	INTEGER ::= 4
maxNrOfHS-DSCHTBSs	INTEGER ::= 90
maxNrOfHS-DSCHTBSs-HS-SCCHless	INTEGER ::= 4
maxHS-PDSCHCodeNrComp-1	INTEGER ::= 15
maxNrOfEHICHCodes	INTEGER ::= 4
maxGANSSSat	INTEGER ::= 64
maxNoGANSS	INTEGER ::= 8
maxSgnType	INTEGER ::= 8
maxNrOfBroadcastPLMNs	INTEGER ::= 5
maxHSDPAFrequency	INTEGER ::= 8
maxHSDPAFrequency-1	INTEGER ::= 7
maxFrequencyinCell	INTEGER ::= 12
maxFrequencyinCell-1	INTEGER ::= 11
maxGANSSSatAlmanac	INTEGER ::= 36
maxGANSSClockMod	INTEGER ::= 4
maxNrOfEDCHRLs	INTEGER ::= 4

ETSI

\*\*\*\*\* \_ \_ -- TES - -id-AllowedQueuingTime id-Allowed-Rate-Information id-AntennaColocationIndicator id-BindingID id-C-ID id-C-RNTT id-Cell-Capacity-Class-Value id-CFN id-CN-CS-DomainIdentifier id-CN-PS-DomainIdentifier id-Cause id-CoverageIndicator id-CriticalityDiagnostics id-ContextInfoItem-Reset id-ContextGroupInfoItem-Reset id-D-RNTI id-D-RNTI-ReleaseIndication id-DCHs-to-Add-FDD id-DCHs-to-Add-TDD id-DCH-DeleteList-RL-ReconfPrepFDD id-DCH-DeleteList-RL-ReconfPrepTDD id-DCH-DeleteList-RL-ReconfRqstFDD id-DCH-DeleteList-RL-ReconfRastTDD id-DCH-FDD-Information id-DCH-TDD-Information id-FDD-DCHs-to-Modify id-TDD-DCHs-to-Modify id-DCH-InformationResponse id-DCH-Rate-InformationItem-RL-CongestInd id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-DL-CCTrCH-InformationList-RL-SetupRgstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRgstFDD id-DL-DPCH-Information-RL-ReconfRqstFDD id-DL-DPCH-InformationItem-PhyChReconfRqstTDD

ProtocolTE-TD := 4ProtocolIE-ID ::= 42 ProtocolIE-ID ::= 309 ProtocolIE-ID ::= 5 ProtocolIE-ID ::= 6 ProtocolIE-ID ::= 7 ProtocolIE-ID ::= 303 ProtocolIE-ID ::= 8 ProtocolIE-ID ::= 9 ProtocolIE-ID ::= 10 ProtocolIE-ID ::= 11 ProtocolIE-ID ::= 310 ProtocolTE-TD := 20ProtocolIE-ID ::= 211 ProtocolIE-ID ::= 515 ProtocolIE-ID ::= 21 ProtocolIE-ID ::= 22 ProtocolIE-ID ::= 26 ProtocolIE-ID ::= 27 ProtocolIE-ID ::= 30 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 32 ProtocolIE-ID ::= 33 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 38 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 46 ProtocolIE-ID ::= 47 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62

id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DL-DPCH-TimingAdjustment id-DLReferencePower id-DLReferencePowerList-DL-PC-Rast id-DL-ReferencePowerInformation-DL-PC-Rgst id-DPC-Mode id-DRXCvcleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Fail-Ind id-DedicatedMeasurementObjectTvpe-DM-Fail id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rqst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMST id-HCS-Prio id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-Measurement ID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-NRT-Load-Information-Value id-NRT-Load-Information-Value-IncrDecrThres id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-PartialReportingIndicator id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhvChReconfRgstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRgstFDD id-RL-Information-RL-SetupRgstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRqstFDD id-RL-InformationList-RL-DeletionRqst

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ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 278 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 470 ProtocolIE-ID ::= 471 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 311 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 305 ProtocolIE-ID ::= 306 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 472 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125

id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadyTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadvFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-RL-Set-Successful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail id-RL-Set-Unsuccessful-InformationItem-DM-Fail-Ind id-RL-Successful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail id-RL-Unsuccessful-InformationItem-DM-Fail-Ind id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RT-Load-Value id-RT-Load-Value-IncrDecrThres id-S-RNTT id-ResetIndicator id-RNC-TD id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLayerAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD

ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 473 ProtocolIE-ID ::= 474 ProtocolIE-ID ::= 475 ProtocolIE-ID ::= 476 ProtocolIE-ID ::= 477 ProtocolIE-ID ::= 478 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 307 ProtocolIE-ID ::= 308 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 244 ProtocolIE-ID ::= 245 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179

id-UL-DPCH-InformationItem-PhyChReconfRqstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD id-DSCHs-to-Add-TDD id-Unused-ProtocolIE-ID-216 id-DSCH-DeleteList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-218 id-Unused-ProtocolIE-ID-219 id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-Unused-ProtocolIE-ID-223 id-Unused-ProtocolIE-ID-226 id-DSCH-ModifyList-RL-ReconfPrepTDD id-Unused-ProtocolIE-ID-228 id-Unused-ProtocolIE-ID-324 id-Unused-ProtocolIE-ID-229 id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-Unused-ProtocolIE-ID-29 id-Unused-ProtocolIE-ID-225 id-GA-Cell id-GA-CellAdditionalShapes id-Unused-ProtocolIE-ID-246 id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD

ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 324 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 225 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 246 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263

id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifvList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRqstTDD id-ClosedLoopMode1-SupportIndicator id-Unused-ProtocolIE-ID-277 id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rqst id-InformationExchangeObjectTvpe-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD

ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97

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id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rast-TDD id-TSTD-Support-Indicator-RL-SetupRgstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator id-Unused-ProtocolIE-ID-247 id-Unused-ProtocolIE-ID-295 id-PrimaryCCPCH-RSCP-RL-ReconfPrepTDD id-DL-TimeSlot-ISCP-Info-RL-ReconfPrepTDD id-DL-Timeslot-ISCP-LCR-Information-RL-ReconfPrepTDD id-DSCH-RNTI id-DL-PowerBalancing-Information id-DL-PowerBalancing-ActivationIndicator id-DL-PowerBalancing-UpdatedIndicator id-DL-ReferencePowerInformation id-Enhanced-PrimarvCPICH-EcNo id-IPDL-TDD-ParametersLCR id-CellCapabilityContainer-FDD id-CellCapabilityContainer-TDD id-CellCapabilityContainer-TDD-LCR id-RL-Specific-DCH-Info id-RL-ReconfigurationReguestFDD-RL-InformationList id-RL-ReconfigurationReguestFDD-RL-Information-IEs id-RL-ReconfigurationReguestTDD-RL-Information id-CommonTransportChannelResourcesInitialisationNotRequired id-DelayedActivation id-DelayedActivationList-RL-ActivationCmdFDD id-DelavedActivationInformation-RL-ActivationCmdFDD id-DelavedActivationList-RL-ActivationCmdTDD id-DelavedActivationInformation-RL-ActivationCmdTDD id-neighbouringTDDCellMeasurementInformationLCR id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD id-PrimCCPCH-RSCP-DL-PC-RqstTDD id-HSDSCH-FDD-Information id-HSDSCH-FDD-Information-Response id-HSDSCH-FDD-Update-Information

ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 233 ProtocolIE-ID ::= 234 ProtocolIE-ID ::= 235 ProtocolIE-ID ::= 236 ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 238 ProtocolIE-ID ::= 239 ProtocolIE-ID ::= 240 ProtocolIE-ID ::= 241 ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19 ProtocolIE-ID ::= 247 ProtocolIE-ID ::= 295 ProtocolIE-ID ::= 202 ProtocolIE-ID ::= 203 ProtocolIE-ID ::= 204 ProtocolIE-ID ::= 249 ProtocolIE-ID ::= 296 ProtocolIE-ID ::= 297 ProtocolIE-ID ::= 298 ProtocolIE-ID ::= 299 ProtocolIE-ID ::= 224 ProtocolIE-ID ::= 252 ProtocolIE-ID ::= 300 ProtocolIE-ID ::= 301 ProtocolIE-ID ::= 302 ProtocolIE-ID ::= 317 ProtocolIE-ID ::= 318 ProtocolIE-ID ::= 319 ProtocolIE-ID ::= 321 ProtocolIE-ID ::= 250 ProtocolIE-ID ::= 312 ProtocolIE-ID ::= 313 ProtocolIE-ID ::= 314 ProtocolIE-ID ::= 315 ProtocolIE-ID ::= 316 ProtocolIE-ID ::= 251 ProtocolIE-ID ::= 150 ProtocolIE-ID ::= 151 ProtocolIE-ID ::= 451 ProtocolIE-ID ::= 452 ProtocolIE-ID ::= 453

ProtocolIE-ID ::= 466

id-HSDSCH-Information-to-Modify	ProtocolIE-ID ::= 456
${\tt id-HSDSCHMacdFlowSpecificInformationList-RL-PreemptRequiredInd}$	ProtocolIE-ID ::= 516
${\tt id-HSDSCHMacdFlowSpecificInformationItem-RL-PreemptRequiredInd}$	ProtocolIE-ID ::= 517
id-HSDSCH-RNTI	ProtocolIE-ID ::= 457
id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 458
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 459
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 467
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 463
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 531
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 532
id-Angle-Of-Arrival-Value-LCR	ProtocolIE-ID ::= 148
id-TrafficClass	ProtocolIE-ID ::= 158
id-Unused-ProtocolIE-ID-248	ProtocolIE-ID ::= 248
id-Unused-ProtocolIE-ID-253	ProtocolIE-ID ::= 253
id-PDSCH-RL-ID	ProtocolIE-ID ::= 323
id-TimeSlot-RL-SetupRspTDD	ProtocolIE-ID ::= 325
id-GERAN-Cell-Capability	ProtocolIE-ID ::= 468
id-GERAN-Classmark	ProtocolIE-ID ::= 469
id-DSCH-InitialWindowSize	ProtocolIE-ID ::= 480
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 464
id-SNA-Information	ProtocolIE-ID ::= 479
id-MAChs-ResetIndicator	ProtocolIE-ID ::= 465
id-TDD-DL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD	ProtocolIE-ID ::= 481
id-TDD-UL-DPCH-TimeSlotFormatModifyItem-LCR-RL-ReconfReadyTDD	ProtocolIE-ID ::= 482
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 483
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD	ProtocolIE-ID ::= 484
id-UL-CCTrCH-InformationItem-RL-AdditionRgstTDD	ProtocolIE-ID ::= 485
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 486
id-DL-CCTrCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 487
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 488
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 489
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 490
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 491
id-UL-TimingAdvanceCtrl-LCR	ProtocolIE-ID ::= 491
id-HSPDSCH-Timeslot-InformationList-PhyChReconfRqstTDD	ProtocolIE-ID ::= 493
id-HSPDSCH-Timeslot-InformationListLCR-PhyChReconfRqstTDD	ProtocolIE-ID ::= 493
	ProtocolIE-ID ::= 494 ProtocolIE-ID ::= 495
id-HS-SICH-Reception-Quality	
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 496
id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 497
id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 498
id-HSSICH-Info-DM	ProtocolIE-ID ::= 499
id-CCTrCH-Maximum-DL-Power-RL-SetupRspTDD	ProtocolIE-ID ::= 500
id-CCTrCH-Minimum-DL-Power-RL-SetupRspTDD	ProtocolIE-ID ::= 501
id-CCTrCH-Maximum-DL-Power-RL-AdditionRspTDD	ProtocolIE-ID ::= 502
id-CCTrCH-Minimum-DL-Power-RL-AdditionRspTDD	ProtocolIE-ID ::= 503
id-CCTrCH-Maximum-DL-Power-RL-ReconfReadyTDD	ProtocolIE-ID ::= 504
id-CCTrCH-Minimum-DL-Power-RL-ReconfReadyTDD	ProtocolIE-ID ::= 505
id-Maximum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD	ProtocolIE-ID ::= 506
${\tt id-Minimum-DL-Power-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD}$	ProtocolIE-ID ::= 507
id-DL-CCTrCH-InformationList-RL-ReconfRspTDD	ProtocolIE-ID ::= 508
id-DL-DPCH-InformationModifyItem-LCR-RL-ReconfRspTDD	ProtocolIE-ID ::= 509
id-Maximum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 510
id-Minimum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 511
id-TDD-Support-8PSK	ProtocolIE-ID ::= 512

id-TDD-maxNrDLPhysicalchannels	
id-ExtendedGSMCellIndividualOffset	
id-RL-ParameterUpdateIndicationFDD-RL-InformationList	
id-Primary-CPICH-Usage-For-Channel-Estimation	
id-Secondary-CPICH-Information	
id-Secondary-CPICH-Information-Change	
id-Unused-ProtocolIE-ID-522	
id-Unused-ProtocolIE-ID-523	
id-RL-ParameterUpdateIndicationFDD-RL-Information-Item	
id-Phase-Reference-Update-Indicator	
id-Unidirectional-DCH-Indicator	
id-RL-Information-RL-ReconfPrepTDD	
id-Multiple-RL-InformationResponse-RL-ReconfReadyTDD	
id-RL-ReconfigurationResponseTDD-RL-Information	
id-Satellite-Almanac-Information-ExtItem	
id-HSDSCH-Information-to-Modify-Unsynchronised	
id-TnlQos	
id-RTLoadValue	
id-NRTLoadInformationValue	
id-CellPortionID	
id-UpPTSInterferenceValue	
id-PrimaryCCPCH-RSCP-Delta	
id-UEMeasurementType	
id-UEMeasurementTimeslotInfoHCR	
id-UEMeasurementTimeslotInfoLCR	
id-UEMeasurementReportCharacteristics	
id-UEMeasurementParameterModAllow	
id-UEMeasurementValueInformation	
id-InterfacesToTraceItem	
id-ListOfInterfacesToTrace	
id-TraceDepth	
id-TraceRecordingSessionReference	
id-TraceReference	
id-UEIdentity	
id-NACC-Related-Data	
id-GSM-Cell-InfEx-Rqst	
id-MeasurementRecoveryBehavior	
id-MeasurementRecoveryReportingIndicator	
id-MeasurementRecoverySupportIndicator id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	
id-F-DPCH-Information-RL-ReconfPrepFDD	
id-F-DPCH-Information-RL-SetupRgstFDD	
id-MBMS-Bearer-Service-List	
id-MBMS-Bearer-Service-List-InfEx-Rsp	
id-Active-MBMS-Bearer-ServiceFDD	
id-Active-MBMS-Bearer-ServiceTDD	
id-Old-URA-ID	
id-UE-State	
id-URA-ID	
id-HARO-Preamble-Mode	
id-SynchronisationIndicator	
id-UL-DPDCHIndicatorEDCH	
id-EDPCH-Information	
id-RL-Specific-EDCH-Information	

ProtocolIE-ID	::=	513
ProtocolIE-ID	::=	514
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ProtocolIE-ID	::=	574
ProtocolIE-ID	::=	575

id-EDCH-RL-Indication id-EDCH-EDD-Information id-EDCH-RLSet-Id id-Serving-EDCHRL-Id id-EDCH-FDD-DL-ControlChannelInformation id-EDCH-FDD-InformationResponse id-EDCH-MACdFlows-To-Add id-EDCH-FDD-Information-To-Modify id-EDCH-MACdFlows-To-Delete id-EDPCH-Information-RLReconfRequest-FDD id-EDCH-MacdFlowSpecificInformationList-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationItem-RL-PreemptRequiredInd id-EDCH-MacdFlowSpecificInformationList-RL-CongestInd id-EDCH-MacdFlowSpecificInformationItem-RL-CongestInd id-MBMS-Bearer-Service-Full-Address id-Initial-DL-DPCH-TimingAdjustment id-Initial-DL-DPCH-TimingAdjustment-Allowed id-User-Plane-Congestion-Fields-Inclusion id-HARO-Preamble-Mode-Activation-Indicator id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp id-ProvidedInformation id-Active-MBMS-Bearer-ServiceFDD-PFL id-Active-MBMS-Bearer-ServiceTDD-PFL id-FrequencyBandIndicator id-Serving-cell-change-CFN id-HS-DSCH-serving-cell-change-information id-HS-DSCH-serving-cell-change-informationResponse id-E-DCH-Serving-cell-change-informationResponse id-secondary-LCR-CCPCH-Info-TDD id-E-DCH-FDD-Update-Information id-Inter-Frequency-Cell-List id-Inter-Frequency-Cell-Information id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp id-TDD-Support-PLCCH id-PLCCH-Information-UL-TimeslotLCR-Info id-PLCCH-Information-PhyChReconfRgstTDD id-TDD768-maxNrDLPhysicalchannelsTS id-RL-InformationResponse-RL-AdditionRspTDD768 id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD768 id-UL-DPCH-InformationItem-RL-AdditionRspTDD768 id-DL-DPCH-InformationItem-RL-AdditionRspTDD768 id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD768 id-UL-Timeslot-InformationModifvList-RL-ReconfReadvTDD768 id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD768 id-DL-Timeslot-InformationModifvList-RL-ReconfReadvTDD768 id-secondary-CCPCH-Info-RL-ReconfReadyTDD768 id-hSSCCH-TDD-Specific-InfoList-Response768 id-hSPDSCH-TDD-Specific-InfoList-Response768 id-HSPDSCH-Timeslot-InformationList-PhyChReconfRgstTDD768 id-UL-Timeslot-InformationList-PhyChReconfRgstTDD768 id-DL-Timeslot-InformationList-PhyChReconfRqstTDD768 id-CellCapabilityContainer-TDD768

ProtocolIE-ID ::= 576 ProtocolIE-ID ::= 577 ProtocolIE-ID ::= 578 ProtocolIE-ID ::= 579 ProtocolIE-ID ::= 580 ProtocolIE-ID ::= 581 ProtocolIE-ID ::= 582 ProtocolIE-ID ::= 583 ProtocolIE-ID ::= 584 ProtocolIE-ID ::= 585 ProtocolIE-ID ::= 586 ProtocolIE-ID ::= 587 ProtocolIE-ID ::= 588 ProtocolIE-ID ::= 589 ProtocolIE-ID ::= 590 ProtocolIE-ID ::= 591 ProtocolIE-ID ::= 592 ProtocolIE-ID ::= 593 ProtocolIE-ID ::= 594 ProtocolIE-ID ::= 595 ProtocolIE-ID ::= 596 ProtocolIE-ID ::= 597 ProtocolIE-ID ::= 598 ProtocolIE-ID ::= 599 ProtocolIE-ID ::= 600 ProtocolIE-ID ::= 601 ProtocolIE-ID ::= 602 ProtocolIE-ID ::= 603 ProtocolIE-ID ::= 604 ProtocolIE-ID ::= 605 ProtocolIE-ID ::= 606 ProtocolIE-ID ::= 607 ProtocolIE-ID ::= 608 ProtocolIE-ID ::= 609 ProtocolIE-ID ::= 610 ProtocolIE-ID ::= 611 ProtocolIE-ID ::= 612 ProtocolIE-ID ::= 613 ProtocolIE-ID ::= 614 ProtocolIE-ID ::= 615 ProtocolIE-ID ::= 616 ProtocolIE-ID ::= 617 ProtocolIE-ID ::= 618 ProtocolIE-ID ::= 619 ProtocolIE-ID ::= 620 ProtocolIE-ID ::= 621 ProtocolIE-ID ::= 622 ProtocolIE-ID ::= 623 ProtocolIE-ID ::= 624 ProtocolIE-ID ::= 625 ProtocolIE-ID ::= 626 ProtocolIE-ID ::= 627 ProtocolIE-ID ::= 628 ProtocolIE-ID ::= 629

id-multiple-DedicatedMeasurementValueList-TDD768-DM-Rsp id-neighbouringTDDCellMeasurementInformation768 id-UEMeasurementTimeslotInfo768 id-Rx-Timing-Deviation-Value-768 id-UEMeasurementValueTransmittedPowerList768 id-UEMeasurementValueTimeslotISCPList768 id-RL-InformationResponse-RL-SetupRspTDD768 id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD768 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD768 id-UL-DPCH-InformationItem-RL-SetupRspTDD768 id-DL-DPCH-InformationItem-RL-SetupRspTDD768 id-TDD768-minimumSpreadingFactor-UL id-TDD768-minimumSpreadingFactor-DL id-TDD768-maxNrDLPhysicalchannels id-DL-DPCH-InformationDeleteList768-RL-ReconfReadyTDD id-DPCH-ID768-DM-Rsp id-DPCH-ID768-DM-Rgst id-DPCH-ID768-DM-Rprt id-EDPCH-Information-RLAdditionReg-FDD id-HSDSCH-Configured-Indicator id-RxTimingDeviationForTAext id-RxTimingDeviationForTA768 id-Rx-Timing-Deviation-Value-ext id-E-DCH-PowerOffset-for-SchedulingInfo id-TrCH-SrcStatisticsDescr id-E-DCH-Information id-E-DCH-Serving-RL-ID id-E-DCH-Information-Reconfig id-E-DCH-Information-Response id-E-DCH-768-Information id-E-DCH-768-Information-Reconfig id-E-DCH-768-Information-Response id-ExtendedPropagationDelay id-Extended-Round-Trip-Time-Value id-AlternativeFormatReportingIndicator id-DCH-Indicator-For-E-DCH-HSDPA-Operation id-E-RGCH-E-HICH-ChannelisationCodeValiditvIndicator id-E-DCH-Minimum-Set-E-TFCIValidityIndicator id-Fast-Reconfiguration-Mode id-Fast-Reconfiguration-Permission id-Continuous-Packet-Connectivity-DTX-DRX-Information id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information id-Continuous-Packet-Connectivity-HS-SCCH-Less-Information-Response id-CPC-Information id-MIMO-InformationResponse id-E-DCH-LCR-Information id-E-DCH-LCR-Information-Reconfig id-E-DCH-LCR-Information-Response id-HS-PDSCH-Code-Change-Grant id-HS-PDSCH-Code-Change-Indicator id-Extended-SRNC-ID id-Extended-RNC-ID id-SixtyfourQAM-DL-SupportIndicator id-Enhanced-FACH-Support-Indicator

804

ProtocolIE-ID ::= 630

ProtocolIE-ID ::= 631

ProtocolIE-ID ::= 632

ProtocolIE-ID ::= 633

ProtocolIE-ID ::= 634

ProtocolIE-ID ::= 635

ProtocolIE-ID ::= 636

ProtocolIE-ID ::= 637

ProtocolIE-ID ::= 638

ProtocolIE-ID ::= 639

ProtocolIE-ID ::= 640

ProtocolIE-ID ::= 641

ProtocolIE-ID ::= 642

ProtocolIE-ID ::= 643

ProtocolIE-ID ::= 644

ProtocolIE-ID ::= 645

ProtocolIE-ID ::= 646

ProtocolIE-ID ::= 647

ProtocolIE-ID ::= 648

ProtocolIE-ID ::= 649

ProtocolIE-ID ::= 650

ProtocolIE-ID ::= 651

ProtocolIE-ID ::= 652

ProtocolIE-ID ::= 653

ProtocolIE-ID ::= 654

ProtocolIE-ID ::= 655

ProtocolIE-ID ::= 656

ProtocolIE-ID ::= 657

ProtocolIE-ID ::= 658

ProtocolIE-ID ::= 659

ProtocolIE-ID ::= 660

ProtocolIE-ID ::= 661

ProtocolIE-ID ::= 662

ProtocolIE-ID ::= 663

ProtocolIE-ID ::= 664

ProtocolIE-ID ::= 665

ProtocolIE-ID ::= 666

ProtocolIE-ID ::= 667

ProtocolIE-ID ::= 668

ProtocolIE-ID ::= 669

ProtocolIE-ID ::= 670

ProtocolIE-ID ::= 671

ProtocolIE-ID ::= 672

ProtocolIE-ID ::= 673

ProtocolIE-ID ::= 675

ProtocolIE-ID ::= 677

ProtocolIE-ID ::= 678

ProtocolIE-ID ::= 679

ProtocolIE-ID ::= 680

ProtocolIE-ID ::= 681

ProtocolIE-ID ::= 682

ProtocolIE-ID ::= 683

ProtocolIE-ID ::= 684

ProtocolIE-ID ::= 685

ETSI

id-Enhanced-FACH-Information-ResponseFDD id-HSDSCH-MACdPDUSizeFormat id-MaximumMACdPDU-SizeExtended id-F-DPCH-SlotFormat id-F-DPCH-SlotFormatSupportRequest id-eDCH-MACdFlow-Retransmission-Timer-LCR id-Max-UE-DTX-Cvcle id-GANSS-Common-Data id-GANSS-Information id-GANSS-Generic-Data id-TUTRANGANSSMeasurementThresholdInformation id-TUTRANGANSSMeasurementValueInformation id-Ext-Reference-E-TFCI-PO id-Ext-Max-Bits-MACe-PDU-non-scheduled id-HARO-MemoryPartitioningInfoExtForMIMO id-MIMO-ActivationIndicator id-MIMO-Mode-Indicator id-MIMO-N-M-Ratio id-TransportBearerNotSetupIndicator id-TransportBearerNotRequestedIndicator id-PowerControlGAP id-UARFCNforNt id-LCRTDD-uplink-Physical-Channel-Capability id-number-Of-Supported-Carriers id-HSSICH-SIRTarget id-HSSICH-TPC-StepSize id-tSN-Length id-HS-SICH-ID-Extension id-HSSICH-Info-DM-Rgst-Extension id-multipleFreg-HSPDSCH-InformationList-ResponseTDDLCR id-multicarrier-number id-UPPCHPositionLCR id-UpPCH-InformationList-LCRTDD id-UpPCH-InformationItem-LCRTDD id-Multiple-PLMN-List id-UE-Capabilities-Info id-FrameOffset id-ChipOffset id-Enhanced-PCH-Capability id-SixteenQAM-UL-Operation-Indicator id-E-TFCI-Boost-Information id-SixtyfourOAM-UsageAllowedIndicator id-SixtyfourOAM-DL-UsageIndicator id-Default-Serving-Grant-in-DTX-Cycle2 id-E-DPDCH-PowerInterpolation id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory id-Continuous-Packet-Connectivity-HS-SCCH-Less-Deactivate-Indicator id-E-DCH-DL-Control-Channel-Change-Information id-E-DCH-DL-Control-Channel-Grant-Information id-MaximumNumber-Of-Retransmission-For-SchedulingInfo-LCRTDD id-E-DCH-RetransmissionTimer-For-SchedulingInfo-LCRTDD id-E-PUCH-PowerControlGAP id-HSDSCH-TBSizeTableIndicator id-DGANSS-Corrections-Reg

805

ProtocolIE-ID ::= 686

ProtocolIE-ID ::= 690

ProtocolIE-ID ::= 691

ProtocolIE-ID ::= 692

ProtocolIE-ID ::= 693

ProtocolIE-ID ::= 694

ProtocolIE-ID ::= 695

ProtocolIE-ID ::= 699

ProtocolTE-TD := 700

ProtocolIE-ID ::= 701

ProtocolIE-ID ::= 702

ProtocolIE-ID ::= 703

ProtocolIE-ID ::= 705

ProtocolIE-ID ::= 706

ProtocolIE-ID ::= 707

ProtocolIE-ID ::= 708

ProtocolIE-ID ::= 709

ProtocolIE-ID ::= 710

ProtocolIE-ID ::= 711

ProtocolIE-ID ::= 712

ProtocolTE-TD := 713

ProtocolIE-ID ::= 714

ProtocolIE-ID ::= 715

ProtocolIE-ID ::= 716

ProtocolIE-ID ::= 717

ProtocolIE-ID ::= 718

ProtocolIE-ID ::= 719

ProtocolIE-ID ::= 720

ProtocolIE-ID ::= 721 ProtocolIE-ID ::= 722

ProtocolIE-ID ::= 723

ProtocolIE-ID ::= 724

ProtocolIE-ID ::= 725

ProtocolIE-ID ::= 726

ProtocolIE-ID ::= 727

ProtocolIE-ID ::= 728

ProtocolIE-ID ::= 729

ProtocolIE-ID ::= 730

ProtocolIE-ID ::= 731

ProtocolIE-ID ::= 732

ProtocolIE-ID ::= 733

ProtocolIE-ID ::= 734

ProtocolIE-ID ::= 735

ProtocolIE-ID ::= 736

ProtocolIE-ID ::= 737

ProtocolIE-ID ::= 738

ProtocolIE-ID ::= 740

ProtocolIE-ID ::= 741

ProtocolIE-ID ::= 742

ProtocolIE-ID ::= 743

ProtocolIE-ID ::= 744

ProtocolIE-ID ::= 745

ProtocolIE-ID ::= 746

ProtocolIE-ID ::= 748

END

```
9.3.7
       Container Definitions
  ******
- -
- -
-- Container definitions
- -
RNSAP-Containers {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Containers (5) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
    - -
-- IE parameter types from other modules.
- -
IMPORTS
  maxPrivateIEs,
  maxProtocolExtensions,
  maxProtocolIEs,
  Criticality,
  Presence,
  PrivateIE-ID,
  ProtocolIE-ID
FROM RNSAP-CommonDataTypes;
- -
-- Class Definition for Protocol IEs
- -
RNSAP-PROTOCOL-IES ::= CLASS
  &id
             ProtocolIE-ID
                                  UNIQUE,
  &criticality
                  Criticality,
  &Value,
  &presence
               Presence
3
WITH SYNTAX {
             &id
  ID
  CRITICALITY
               &criticality
  TYPE
               &Value
  PRESENCE
               &presence
}
```

- --- Class Definition for Protocol IEs - -RNSAP-PROTOCOL-IES-PAIR ::= CLASS { &id ProtocolIE-ID UNIQUE, &firstCriticality Criticality, &FirstValue, &secondCriticality Criticality, &SecondValue, &presence Presence WITH SYNTAX { ID &id FIRST CRITICALITY &firstCriticality &FirstValue FIRST TYPE &secondCriticality SECOND CRITICALITY SECOND TYPE &SecondValue PRESENCE &presence } - -- --- Class Definition for Protocol Extensions - -RNSAP-PROTOCOL-EXTENSION ::= CLASS { &id ProtocolIE-ID UNIQUE, &criticality Criticality, &Extension, &presence Presence WITH SYNTAX { &id ID CRITICALITY &criticality EXTENSION &Extension PRESENCE &presence } - -- --- Class Definition for Private IEs - -RNSAP-PRIVATE-IES ::= CLASS { &id PrivateIE-ID, &criticality Criticality, &Value, &presence Presence

WITH SYNTAX { ID &id CRITICALITY &criticality TYPE &Value PRESENCE &presence -- Container for Protocol IEs ProtocolIE-Container {RNSAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE (SIZE (0..maxProtocolIEs)) OF ProtocolIE-Field {{IEsSetParam}} ProtocolIE-Single-Container {RNSAP-PROTOCOL-IES : IEsSetParam} ::= ProtocolIE-Field {{IEsSetParam}} ProtocolIE-Field {RNSAP-PROTOCOL-IES : IESSetParam} ::= SEQUENCE { RNSAP-PROTOCOL-IES.&id ({IEsSetParam}), id RNSAP-PROTOCOL-IES.&criticality ({IEsSetParam}{@id}), criticality ({IEsSetParam}{@id}) value RNSAP-PROTOCOL-IES.&Value - --- Container for Protocol IE Pairs - -ProtocolIE-ContainerPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE (SIZE (0..maxProtocolles)) OF ProtocolIE-FieldPair {{IEsSetParam}} ProtocolIE-FieldPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE { id RNSAP-PROTOCOL-IES-PAIR.&id ({IEsSetParam}), firstCriticality RNSAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}), firstValue ({IEsSetParam}{@id}), RNSAP-PROTOCOL-IES-PAIR.&FirstValue secondCriticality RNSAP-PROTOCOL-IES-PAIR.&secondCriticality ({IEsSetParam}{@id}), secondValue RNSAP-PROTOCOL-IES-PAIR.&SecondValue ({IEsSetParam}{@id}) - --- Container Lists for Protocol IE Containers ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE (SIZE (lowerBound..upperBound)) OF ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES-PAIR : IESSetParam} ::= SEQUENCE (SIZE (lowerBound..upperBound)) OF ProtocolIE-ContainerPair {{IEsSetParam}} - -Container for Protocol Extensions - -ProtocolExtensionContainer {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE (SIZE (1..maxProtocolExtensions)) OF ProtocolExtensionField {{ExtensionSetParam}} ProtocolExtensionField {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE { RNSAP-PROTOCOL-EXTENSION.&id ({ExtensionSetParam}), id criticality ({ExtensionSetParam}{@id}), RNSAP-PROTOCOL-EXTENSION.&criticality extensionValue RNSAP-PROTOCOL-EXTENSION. & Extension ({ExtensionSetParam}{@id}) 3 - --- Container for Private IEs - -\*\*\*\*\*\* PrivateIE-Container {RNSAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE (SIZE (1..maxPrivateIEs)) OF PrivateIE-Field {{IEsSetParam}} PrivateIE-Field {RNSAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE { id RNSAP-PRIVATE-IES.&id ({IEsSetParam}), criticality RNSAP-PRIVATE-IES.&criticality ({IEsSetParam}{@id}), ({IEsSetParam}{@id}) value RNSAP-PRIVATE-IES.&Value }

END

## 9.4 Message Transfer Syntax

RNSAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [20].

## 9.5 Timers

T Preempt

- Specifies the maximum time that a DRNS 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:

- 1. Transfer Syntax Error;
- 2. Abstract Syntax Error;
- 3. Logical Error.

Protocol errors can occur in the following functions within a receiving node.

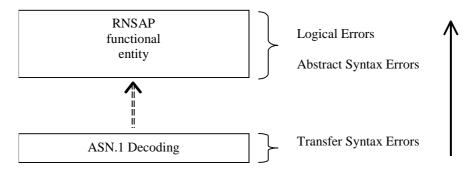


Figure 34: Protocol Errors in RNSAP

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 RNSAP entity:

- 1. Receives IEs or IE groups that cannot be understood (unknown IE 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 RNSAP 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:

- 1. Reject IE;
- 2. Ignore IE and Notify Sender;
- 3. 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 a 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, RNSAP 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 f the concerned object of class RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR, RNSAP-PROTOCOL-EXTENSION or RNSAP-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 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 information 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 subclauses 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 DRNS

# 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 UE in the DRNS 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 UE in the DRNS, 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 UE in the DRNS 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 DRNS 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 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 DRNS.

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 DRNS 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 DRNS shall initiate the Radio Link Pre-emption procedure for all the UE 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 DRNS 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 DRNS shall reject the procedure that triggered the pre-emption process and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.

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# 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.

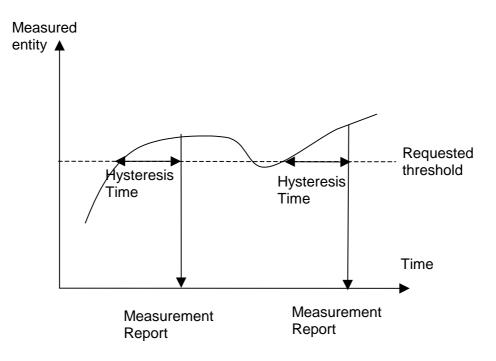


Figure B.1: Event A reporting with Hysteresis Time specified

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.

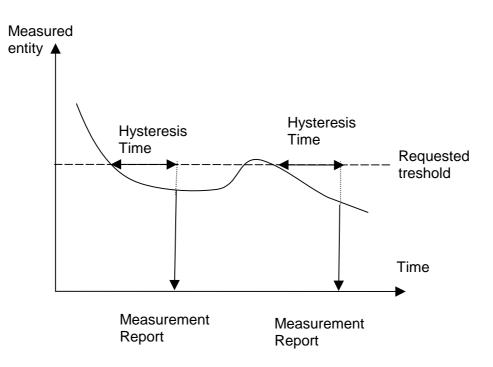


Figure B.2: Event B reporting with Hysteresis Time specified

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.

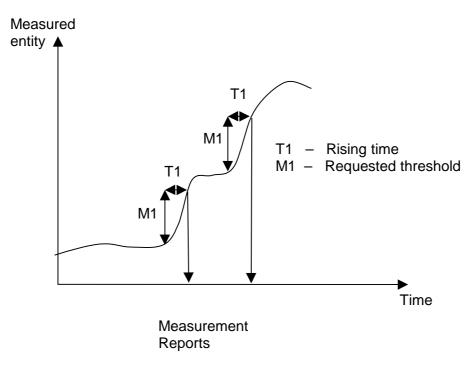


Figure B.3: Event C reporting

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.

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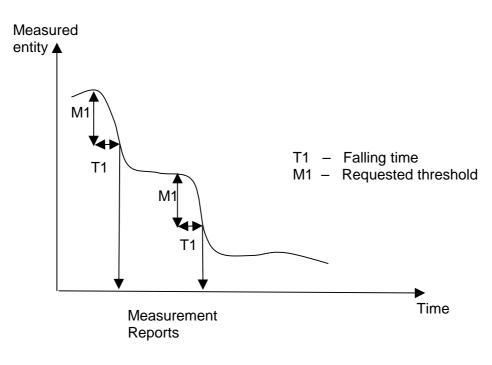
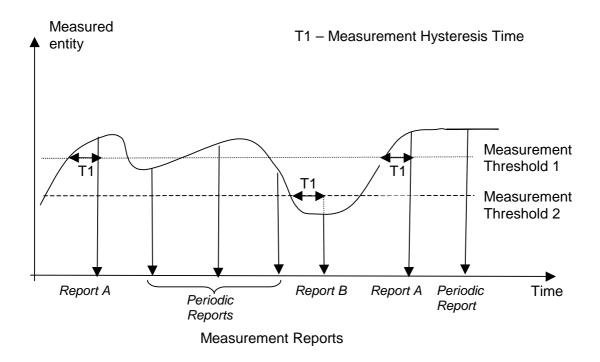


Figure B.4: Event D reporting

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 DRNS 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.

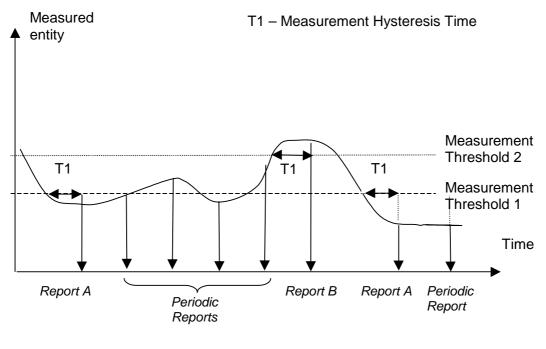
When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) the Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.



### Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested

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 DRNS 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:

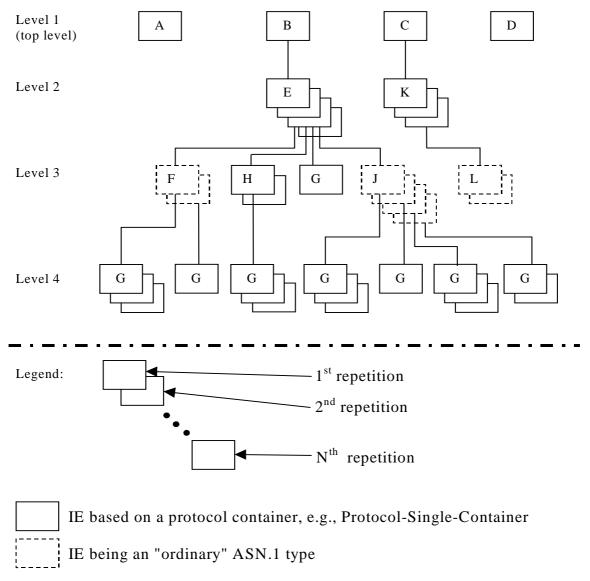
IE/Group Name	Presence	Range	IE Type and Referenc e	Semantics Description	Criticality	Assigned Criticality
Message Type	М				YES	reject
Transaction ID	М				_	
A	М				YES	reject
В	М				YES	reject
>E		1 <maxe></maxe>			EACH	ignore
>>F		1 <maxf></maxf>			-	
>>>G		03,			EACH	ignore
>>H		1 <maxh></maxh>			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

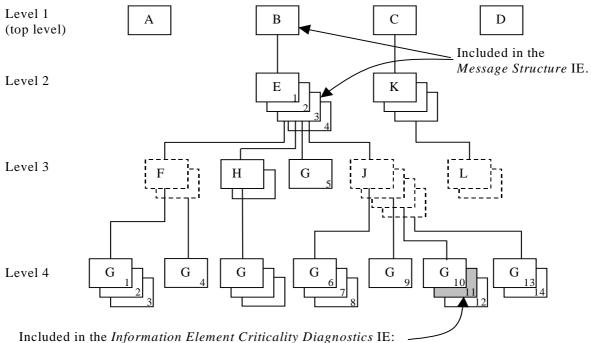
Assume further more that a received message based on the above tabular format is according to the figure below.





## C.3 Content of Criticality Diagnostics

## C.3.1 Example 1



a) *IE ID* IE

b) Repetition Number IE

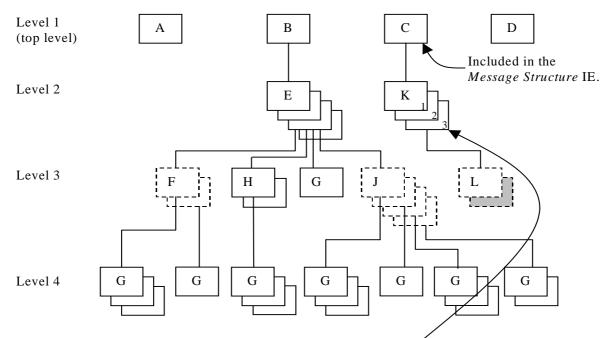
### Figure C.2: Example of a received RNSAP message containing a not comprehended IE

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 rep	etition
>IE ID	id-B	IE ID from level 1.
Message Structure, 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

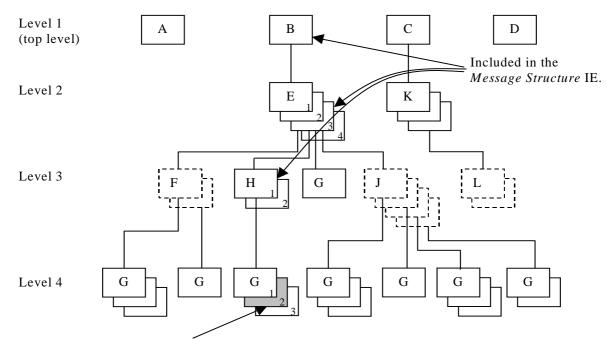
### Figure C.3: Example of a received RNSAP message containing a not comprehended IE

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	Criticality for IE on the reported level, i.e. level 2.	
	and		
	notify		
IE ID	id-K	IE ID from the reported level, i.e. level 2.	
Repetition	3	Repetition number on the reported level, i.e. level 2.	
Number			
Type of Error	not		
	underst		
	ood		
Message Structu	re, first repe	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.

### C.3.3 Example 3



Included in the Information Element Criticality Diagnostics IE:

- a) IE ID IE
- b) Repetition Number IE

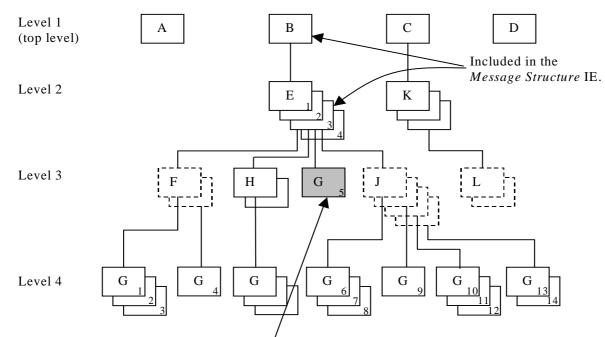
### Figure C.4: Example of a received RNSAP message containing a not comprehended IE

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	e, second	repetition
>IE ID	id-E	IE ID from level 2.
>Repetition	3	Repetition number from level 2.
Number		
Message Structur	e, third rep	etition
>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.3.4 Example 4



- Included in the Information Element Criticality Diagnostics IE:
- a) IE ID IE
- b) Repetition Number IE

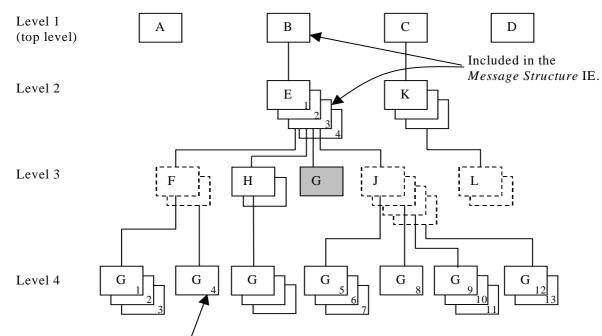
### Figure C.5: Example of a received RNSAP message containing a not comprehended IE

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 Message Structure 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 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 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).

### C.3.5 Example 5



Included in the Information Element Criticality Diagnostics IE:

- a) IE ID IE
- b) Repetition Number IE

### Figure C.6: Example of a received RNSAP 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 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 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.4 ASN.1 of EXAMPLE MESSAGE

```
ExampleMessage ::= SEQUENCE {
    ProtocolIEs
                       ProtocolIE-Container
                                                       {{ExampleMessage-IEs}},
    ProtocolExtensions ProtocolExtensionContainer {{ExampleMessage-Extensions}}
                                                                                        OPTIONAL.
}
ExampleMessage-IEs RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
}
E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }
E-IES RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
F-List ::= SEQUENCE (SIZE (1..maxF)) OF F
F ::= SEQUENCE {
                     G-List2 OPTIONAL.
    iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
    . . .
}
          RNSAP-PROTOCOL-EXTENSION ::= {
F-ExtIEs
    . . .
}
G-List2 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { G2-IEs }
G2-IES RNSAP-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 RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
}
G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }
G3-IES RNSAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
}
G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }
G1-IES RNSAP-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 RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G4-IEs} }
G4-IES RNSAP-PROTOCOL-IES ::= {
   { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}
C ::= SEQUENCE \{
   k
                   K-List,
    iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
    . . .
}
C-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }
K-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
}
K ::= SEQUENCE {
                   L-List,
   1
   iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
   . . .
}
K-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
L-List ::= SEQUENCE (SIZE (1..maxL)) OF L
L ::= SEQUENCE \{
                   M OPTIONAL,
   m
   iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
   . . .
}
L-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
ExampleMessage-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
}
```

# Annex D (normative): DRNS Behaviour at SRNC or RNSAP Signalling Bearer Failure

This annex describes the DRNC actions in the event of SRNC or RNSAP Signalling Bearer failure when all or some of the UE Contexts related to the SRNC need to be removed in DRNC.

### D.1 Detection of SRNC or RNSAP Signalling Bearer/Connection Failure

Termination of all or some of the UE Contexts in DRNC which are related to an SRNC may be triggered due to failure of SRNC, RNSAP Signalling Bearer or the Iur signalling connection of an UE(s).

### D.1.1 Termination of all UE Contexts Related to a Specific SRNC

Termination of all UE Contexts in DRNC which are related to a specific SRNC is triggered if the RNSAP Signalling Bearer failure is detected by the RNSAP according to the procedure described in the sub-clause 4.5.1.5.1 of TS 25.420. By "all" UE Contexts, it means all UEs having dedicated and/or common channel resources.

### D.1.2 Termination of Specific UE Context

Termination of a specific UE Context in DRNC is triggered for an UE which has dedicated transport channel resources according to the procedure described in the sub-clause 4.5.1.5.2 of TS 25.420.

## D.2 DRNC Actions at UE Context Termination

When termination of the UE Context is required, the DRNC shall remove any common and/or dedicated radio resources related to the UE Context. The DRNC shall also initiate release of the dedicated or common user plane resources that were involved in these UE contexts. In addition, if it is possible the DRNC shall release the RRC connection.

# Annex E (informative): Change History

				Change	history
TSG RAN#	Version	CR	Tdoc RAN	New Version	Subject/Comment
RAN_06	-	-	RP-99755	3.0.0	Approved at TSG RAN #6 and placed under Change Control
RAN_07	3.0.0	-	RP-000100	3.1.0	Approved at TSG RAN #7
RAN_07	3.0.0	-	RP-000143	3.1.0	Approved at TSG RAN #7
RAN_07	3.0.0	-	RP-000146	3.1.0	Approved at TSG RAN #7
RAN_08	3.1.0	-	RP-000241	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000242	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000243	3.2.0	Approved at TSG RAN #8
RAN_08	3.1.0	-	RP-000244	3.2.0	Approved at TSG RAN #8
RAN_09	3.2.0	145- 149, 151- 154, 156- 164, 166 167	RP-000379	3.3.0	Approved at TSG RAN #9
RAN_09	3.2.0	168 169 171 173 174 176 178- 180 183- 193	RP-000380	3.3.0	Approved at TSG RAN #9
RAN_09	3.2.0	194- 200-	RP-000381	3.3.0	Approved at TSG RAN #9
RAN_10	3.3.0	202- 219, 221- 228, 230, 232- 239, 241, 243- 257, 259, 260, 263- 265, 265, 265, 265, 274- 278, 274- 278, 280, 281	RP-000618 RP-000619 RP-000621 RP-000696	3.4.0	Approved at TSG RAN #10
RAN_11	3.4.0	282- 286, 288- 293, 295- 302, 304, 308, 311, 313- 319, 329, 332, 334- 335	RP-010117 RP-010118	3.5.0	Approved at TSG RAN #11

	_				Change history		
Date	TSG #	TSG Doc.	CR	Re v	Subject/Comment	Old	New
March 01	11	RP-010167	310	•	Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01		RP-010164	309				
March 01	11	RP-010159	327,3 28,33 6,337		Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
March 01	11	RP-010160			Approved at TSG RAN #11 and placed under Change Control	-	4.0.0
06/2001	12	RP-010378	-		Approved at TSG RAN#12	4.0.0	4.1.0
06/2001	12	RP-010379			Approved at TSG RAN#12	4.0.0	4.1.0
06/2001	12	RP-010380			Approved at TSG RAN#12	4.0.0	4.1.0
06/2001	12	RP-010394	372,3 73,37 4,375 ,376, 379,3 80,39 1,393 ,412		Approved at TSG RAN#12	4.0.0	4.1.0
09/2001	13	RP-010583		2	Ambiguity in CM handling	4.1.0	4.2.0
09/2001	13	RP-010583		1	Corrections to the DSCH Code Mapping IE	4.1.0	4.2.0
09/2001	13	RP-010583			Transport bearer replacement clarification	4.1.0	4.2.0
09/2001	13	RP-010583	_	1	Correction to the Error handling of the ERROR INDICATION message	4.1.0	4.2.0
09/2001	13	RP-010583		2	Cell Reserved for operator use	4.1.0	4.2.0
09/2001	13	RP-010583	437	1	Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0	4.2.0
09/2001	13	RP-010583		1	TFCS Correction for TDD	4.1.0	4.2.0
09/2001	13	RP-010583	442		Correction of a wrong implementation of CR 414	4.1.0	4.2.0
09/2001	13	RP-010583	444	1	Error handling of the Erroneously Present Conditional les	4.1.0	4.2.0
09/2001	13	RP-010583	446	1	Correction to Downlink Signaling Transfer	4.1.0	4.2.0
09/2001	13	RP-010584	450		Bitstrings ordering	4.1.0	4.2.0
09/2001	13	RP-010584	460		Mapping of TFCS to TFCI	4.1.0	4.2.0
09/2001	13	RP-010584	463		TDD Channelisation code range definition	4.1.0	4.2.0
09/2001	13	RP-010584	475	2	Clarification of coordinated DCHs	4.1.0	4.2.0
09/2001	13	RP-010584		1	Clarification on the Time Slot LCR	4.1.0	4.2.0
09/2001	13	RP-010584		1	Rnsap criticality	4.1.0	4.2.0
09/2001	13	RP-010584		1	Clarification of chapter 10	4.1.0	4.2.0
09/2001	13	RP-010584	472	1	Clarification of use of Diversity Control Indicator	4.1.0	4.2.0
	13				Clarification on the reference of the "Neighbouring TDD Cell	4.1.0	4.2.0
09/2001	13	RP-010596	415		Information LCR"		
09/2001 09/2001	13	RP-010596	420	2	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type	4.1.0	4.2.0
	-	RP-010596 RP-010596	420 423	2	Information LCR" Allowed Combinations of Dedicated Measurement Type and the	4.1.0	4.2.0 4.2.0
09/2001	13	RP-010596	420 423	2	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types	4.1.0	
09/2001 09/2001 09/2001	13 13 13 13	RP-010596 RP-010596 RP-010596	420 423 430	2	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types	4.1.0	4.2.0
09/2001 09/2001 09/2001 09/2001	13 13 13 13 13	RP-010596 RP-010596 RP-010596 RP-010596	420 423 430 435	2	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types Adding protocol container in CHOICE type IE	4.1.0 4.1.0 4.1.0 4.1.0	4.2.0 4.2.0 4.2.0
09/2001 09/2001 09/2001 09/2001 09/2001	13 13 13 13 13 13	RP-010596 RP-010596 RP-010596 RP-010596 RP-010596	420 423 430 435 438	1	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types Adding protocol container in CHOICE type IE Clarification of Abnormal Conditions/Unsuccessful Operation	4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0	4.2.0 4.2.0 4.2.0 4.2.0
09/2001 09/2001 09/2001 09/2001	13 13 13 13 13	RP-010596 RP-010596 RP-010596 RP-010596 RP-010596 RP-010596	420 423 430 435 438 455	1 1	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types Adding protocol container in CHOICE type IE Clarification of Abnormal Conditions/Unsuccessful Operation Correct ion to position reporting CR to 25.423 v4.1.0: RX timing deviation as dedicated	4.1.0 4.1.0 4.1.0 4.1.0	4.2.0 4.2.0 4.2.0
09/2001 09/2001 09/2001 09/2001 09/2001 09/2001	13       13       13       13       13       13       13       13       13       13	RP-010596 RP-010596 RP-010596 RP-010596 RP-010596 RP-010596	420 423 430 435 438 455 461	1 1 1 1	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types Adding protocol container in CHOICE type IE Clarification of Abnormal Conditions/Unsuccessful Operation Correct ion to position reporting CR to 25.423 v4.1.0: RX timing deviation as dedicated measurement for 1.28Mcps TDD	4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0	4.2.0 4.2.0 4.2.0 4.2.0 4.2.0 4.2.0
09/2001 09/2001 09/2001 09/2001 09/2001 09/2001	13 13 13 13 13 13 13 13	RP-010596 RP-010596 RP-010596 RP-010596 RP-010596 RP-010596	420 423 430 435 438 455 461 478	1 1	Information LCR" Allowed Combinations of Dedicated Measurement Type and the Reporting Characteristics Type Support of 8PSK modulation for LCR TDD Allowed combination of the measurement and event types Adding protocol container in CHOICE type IE Clarification of Abnormal Conditions/Unsuccessful Operation Correct ion to position reporting CR to 25.423 v4.1.0: RX timing deviation as dedicated	4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0 4.1.0	4.2.0 4.2.0 4.2.0 4.2.0 4.2.0

					RNSAP messages		
12/2001	14				Alignment to RAN4 spec for Transmitted Code Power	4.2.0	4.3.0
		RP-010855			Measurement		
12/2001	14	RP-010855			Transmit Diversity for TDD	4.2.0	4.3.0
12/2001	14	RP-010855		4	Clarification for the definition of the ASN.1 constants	4.2.0	4.3.0
12/2001	14	RP-010855		1	Terminology Corrections	4.2.0	4.3.0
12/2001	14	RP-010855	509		Procedure Code Criticality in Error Indication	4.2.0	4.3.0
12/2001	14	RP-010855	512		Clarification for the Power Adjustment Type IE in the DL POWER CONTROL REQUEST message	4.2.0	4.3.0
12/2001	14	RP-010855		1	Forward Compatibility for DL Power Balancing	4.2.0	4.3.0
12/2001	14	RP-010856			Reconfiguration clarification	4.2.0	4.3.0
12/2001	14	RP-010856		2	DRNC behaviour at SRNC or RNSAP Signalling Bearer failure	4.2.0	4.3.0
12/2001	14	RP-010856		2	Addition of amendment to clarify the PER encoding of bitstrings	4.2.0	4.3.0
12/2001	14	RP-010856		-	Clarification on Primary CPICH Ec/No IE	4.2.0	4.3.0
12/2001	14	RP-010856		2	Transport Bearer replacement clarification for the DSCH case	4.2.0	4.3.0
12/2001	14	RP-010856			Clarification of the Transaction ID	4.2.0	4.3.0
12/2001	14	RP-010856			Clarification of S Field Length usage	4.2.0	4.3.0
12/2001	14	RP-010856			Correction the Clause 10 Error Handling	4.2.0	4.3.0
12/2001	14	RP-010856			Correction to Primary CPICH handling in RL Setup procedure	4.2.0	4.3.0
12/2001	14	RP-010873	486	1	Correction of drift rate resolution	4.2.0	4.3.0
12/2001	14	RP-010873	487		Cell Parameter ID IE definition for 1.28Mcps TDD	4.2.0	4.3.0
12/2001	14				Introduction of Band Indicator in GSM Neighbouring Cell	4.2.0	4.3.0
		RP-010873		L	Information		
12/2001	14	RP-010873			UL SIR Target in RL Setup Request TDD	4.2.0	4.3.0
12/2001	14	RP-010873		2	Handling of the DPC Mode IE	4.2.0	4.3.0
12/2001	14	RP-010873		1	Rel-4 specific terminology corrections	4.2.0	4.3.0
12/2001	14	RP-010873		1	Correction to the RNSAP Congestion Indication	4.2.0	4.3.0
12/2001	14	RP-010873	530	2	SFN-SFN quality indication	4.2.0	4.3.0
12/2001	14	DD 040044	405		Correction to SFN-SFN Observed Time Difference Measurement	4.2.0	4.3.0
00/0000	45	RP-010911		1	report mapping	100	4.4.0
03/2002	15	RP-020169		3 1	RNSAP signalling support for flexible split	4.3.0	4.4.0
03/2002 03/2002	15 15	RP-020169		1	Setting of Initial power in a new CCTrCH in TDD Clarification to measurement unit at Higher Layer Filtering.	4.3.0 4.3.0	4.4.0
03/2002	15	RP-020169 RP-020169		2	New UE identifier for MAC-c/sh multiplexing for DSCH	4.3.0	4.4.0
03/2002	15	RP-020169		2	Correction to physical channels which SCTD can be applied (lur)	4.3.0	4.4.0
03/2002	15	RP-020109		1	Corrections to the Information Exchange Initiation procedure	4.3.0	4.4.0
00/2002	10	111-020101	0-0	l'	Concellens to the information Exchange initiation procedure	4.5.0	7.7.0
03/2002	15	RP-020181	546	1	Correction to UE position measurements quality and threshold	4.3.0	4.4.0
					information		
03/2002	15	RP-020181	547	1	Correction to UE position measurements change and deviation limit	4.3.0	4.4.0
03/2002	15	RP-020181	552		formulas Re-ordering of cause values	4.3.0	4.4.0
	10						
03/2002	15	RP-020181	561		Clarification to the Allowed Rate Information in RL	4.3.0	4.4.0
					Setup/Addition/Reconfiguration response and RL Reconfiguration		
00/0000	4.5	<b>DD</b> 000404	500		Ready messages.	100	
03/2002	15	RP-020181	562	1	Modification of the T_utran-gps length	4.3.0	4.4.0
03/2002	15	RP-020181	567		Amendment of the COMMON MEASUREMENT INITIATION	4.3.0	4.4.0
00/0000	4.5	<b>DD</b> 000404		_	REQUEST message	4.0.0	
03/2002	15	RP-020181	576	2	Load Value Extension	4.3.0	4.4.0
03/2002	15	RP-020181	588		The correction on duplicated allocatioin of protocolIE-ID	4.3.0	4.4.0
03/2002	15	RP-020181	590		Enhanced DSCH and syntax error ASN.1 correction	4.3.0	4.4.0
03/2002	15	KF-020101	209		Elinanced DSCH and syntax enor ASN.1 correction	4.3.0	4.4.0
03/2002	15	RP-020181	596	1	Introduction of ellipses for IPDL parameters	4.3.0	4.4.0
03/2002	15	RP-020231	586	2	Removing of channel coding option "no coding" for FDD	4.3.0	4.4.0
03/2002	15	111-020201	500	2	Power Balancing Activation with Radio Link Setup and Radio Link	4.4.0	5.0.0
00/2002	10	RP-020188	433	4	Addition procedures in RNSAP	4.4.0	0.0.0
03/2002	15			-	Power Balancing Restart with Radio Link Reconfiguration	4.4.0	5.0.0
	-	RP-020188	434	3	procedure in RNSAP		
03/2002	15	RP-020188	473	2	Traffic class signalling over lur	4.4.0	5.0.0
03/2002	15	RP-020188		2	Alignment to RAN4 specifications for CPICH Ec/No	4.4.0	5.0.0
03/2002	15	RP-020194	543	2	RNSAP Signalling support for flexible hard split	4.4.0	5.0.0
03/2002	15				Add IPDL TDD parameters for LCR in RNSAP information element	4.4.0	5.0.0
		RP-020193		2	functional definition and contents		
03/2002	15	RP-020192		1	Introduction of cell capability container over lur	4.4.0	5.0.0
03/2002	15	RP-020189		2	Introduction of IP Transport option in UTRAN	4.4.0	5.0.0
03/2002	15	RP-020197		1	Iur Common Transport Channel Efficiency Optimisation	4.4.0	5.0.0
	140	RP-020188	558	1	RNSAP Reset procedure	4.4.0	5.0.0
03/2002	15			-			
03/2002	15	RP-020199	563	2	Separation of Resource Reservation and Radio Link Activation	4.4.0	5.0.0
			563 564	2	Separation of Resource Reservation and Radio Link Activation Introduction of RL Timing Adjustment support Introduction of the Neighbouring TDD Cell Measurement	4.4.0 4.4.0 4.4.0	5.0.0 5.0.0 5.0.0

02/2002	15	DD 000189	560	1	Information LCR	4.4.0	500
03/2002	15	RP-020188		1	Uplink SIR Target in RL Setup Response TDD	4.4.0	5.0.0
03/2002	15	RP-020190	570	3	HSDPA RL-Level Signalling Introduction of Angle of Arrival enhanced UE positioning for	4.4.0	5.0.0
03/2002	15	RP-020193	571	1	1.28Mcps TDD in RNSAP	4.4.0	5.0.0
03/2002	15	RP-020193		2	Traffic class signalling for USCH	4.4.0	5.0.0
03/2002	15	111-020100	512	2	New Measurement Type in Common Measurements and	4.4.0	5.0.0
03/2002	15	RP-020188	577	4	Information Exchange	4.4.0	5.0.0
03/2002	15	RP-020194		3	RNSAP changes for TFCI power control in DSCH hard split mode	4.4.0	5.0.0
03/2002	15	RP-020188		1	Introduction of the cell relation parameters	4.4.0	5.0.0
06/2002	16	RP-020426		4	Introduction of Qth signalling in UTRAN	5.0.0	5.1.0
06/2002	16	RP-020406			Criticality Information Decoding Failure Handling	5.0.0	5.1.0
06/2002	16	RP-020406		1	Alignment of tabular and ASN.1 coding for DL power	5.0.0	5.1.0
06/2002	16	RP-020406	605	1	Correction to RL Restore Indication	5.0.0	5.1.0
06/2002	16				New UE identifier for Shared Channel handling for TDD	5.0.0	5.1.0
		RP-020406	611		DSCH/USCH		
06/2002	16	RP-020406	614	1	Clarification of Cell individual offset	5.0.0	5.1.0
06/2002	16	RP-020419			Clarification on the Neighboring TDD Cell Measurement information		5.1.0
06/2002	16	RP-020422			HS_DSCH Support Indicator in FDD Cell Capability Container	5.0.0	5.1.0
06/2002	16	RP-020432			Removal of syntax errors from ASN.1	5.0.0	5.1.0
06/2002	16	RP-020422			Interaction between HSDPA and IP transport in UTRAN	5.0.0	5.1.0
06/2002	16	RP-020428	623		RNSAP changes for TFCI power control in DSCH hard split mode	5.0.0	5.1.0
06/2002	16			۱.	Correction to the use of the CFN IE / SFN IE in the Measurement	5.0.0	5.1.0
00/000	10	RP-020406		1	Initiation procedures		
06/2002	16	RP-020406		<u> </u>	TFCI 0 definition for TDD	5.0.0	5.1.0
06/2002	16	RP-020406		1	CELL_DCH to CELL_FACH TDD correction	5.0.0	5.1.0
06/2002	16	RP-020407	641	1	DSCH Information Correction	5.0.0	5.1.0
06/2002	16	DD 000440	0.40		Definition of quality figures for SFN-SFN and Tutran-gps	5.0.0	5.1.0
00/0000	40	RP-020419		4	measurement value information	<b>F</b> 0 0	<b>540</b>
06/2002	16	RP-020407		1	Clarification for the usage of the cause value	5.0.0 5.0.0	5.1.0
06/2002	16 16	RP-020422		2 1	HS-DSCH Initial credits		5.1.0
06/2002	16	RP-020419 RP-020432		1	Clarification to the RNSAP RL Congestion procedure DSCH Support Indicator in Cell Capability Container	5.0.0 5.0.0	5.1.0
06/2002	16	RP-020432 RP-020407		1	RNSAP Tabular alignment to ASN1 and other corrections	5.0.0	5.1.0 5.1.0
06/2002	16	RP-020407		2		5.1.0	5.2.0
09/2002	17	RP-020447		2	Correction of Criticality of RL set information in Dedicated	5.2.0	5.3.0
03/2002		111-020007	0/0		Measurement initiation	0.2.0	0.0.0
09/2002	17	RP-020614	-	1		5.2.0	5.3.0
09/2002	17	RP-020616	679	1	Clarification of the Common Measurement Reporting procedure	5.2.0	5.3.0
09/2002	17	RP-020607	681		Clarification to DCH Rate Control for modified DCHs	5.2.0	5.3.0
09/2002	17	RP-020648	682	3	CQI and ACK/NACK Repetition factor and Power Offset and k- value	5.2.0	5.3.0
09/2002	17	RP-020622	683		Change of Maximum Number of HS-SCCH Codes	5.2.0	5.3.0
09/2002	17	RP-020652	684	2	Required enhancements due to GERAN specific impacts on the lucs interface	5.2.0	5.3.0
09/2002	17	RP-020618	685		Clarification for the initial power of the power balancing (Pinit)	5.2.0	5.3.0
09/2002	17	RP-020651	686	2	Partial dedicated measurement reporting	5.2.0	5.3.0
09/2002	17	RP-020646	687	1	DSCH Initial Credits	5.2.0	5.3.0
09/2002	17	RP-020619	688		Removal of BLER for HS-DSCH	5.2.0	5.3.0
09/2002	17	RP-020617	689	1	Correction for inconsistency in length of TFCI field 2	5.2.0	5.3.0
09/2002	17	RP-020612	691	1	WG4 Reference Corrections	5.2.0	5.3.0
09/2002	17	RP-020607	694	2	RNSAP Procedures alignment to NBAP and other corrections	5.2.0	5.3.0
09/2002	17	RP-020607	696	2	Handling of Common measurement of neighbor cell information elements	5.2.0	5.3.0
	17	RP-020589	700	1	Replacing all occurences of P <sub>SIR</sub> (k) by dP <sub>curr</sub> in 25.423	5.2.0	5.3.0
09/2002	17	111-020303	100	l .			

09/2002	17	RP-020625	702	1	Introduction of Shared Network Area information support	5.2.0	5.3.0
09/2002	17	RP-020603	705	2	Correction of the Error Indication	5.2.0	5.3.0
09/2002	17	RP-020613	707	2	Uplink Synchronisation in 1.28Mcps TDD	5.2.0	5.3.0
09/2002	17	RP-020628	714		Traffic Class for HS-DSCH	5.2.0	5.3.0
09/2002	17	RP-020607	716	1	Clarification of the DCH rate coding	5.2.0	5.3.0
09/2002	17	RP-020649	717	1	HS-SCCH Power offset	5.2.0	5.3.0
09/2002	17	RP-020603	720	1	Correction to Compressed Mode in RL Addition Failure	5.2.0	5.3.0
09/2002	17	RP-020615	722		Quality les for UE positioning measurements	5.2.0	5.3.0

12/2002	18	RP-020758	724		Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	5.3.0	5.4.0
12/2002	18	RP-020757	726		Correction to RX Timing Deviation LCR value range	5.3.0	5.4.0
12/2002	18	RP-020759		2	Slot Format for 1.28Mcps TDD	5.3.0	5.4.0
12/2002	18	RP-020762		<u>-</u> 1	MAC-hs Reset Indicator	5.3.0	5.4.0
12/2002	18	RP-020702		1	Measurement power offset signalling for HSDPA	5.3.0	5.4.0
12/2002	18	RP-020768		1	Power offset values for HS-DPCCH	5.3.0	5.4.0
12/2002	18	RP-020762			Correction on the Cell Capacity Class	5.3.0	5.4.0
12/2002	18	RP-020762			Rel-5 ASN.1 Error correction	5.3.0	5.4.0
12/2002				2	Final Corrections from RNSAP Procedure Review	5.3.0	
	18	RP-020753		2 1	Addition of the second TDD Channelisation Code of HS-SCCH for		5.4.0
12/2002	18	RP-020767		-	the 1.28Mcps TDD option.	5.3.0	5.4.0
12/2002	18	RP-020765		1	Clarfication of the usage of HS-DSCH-RNTI	5.3.0	5.4.0
12/2002	18	RP-020766	753		Clarification for the inclusion of the DL Power Balancing Updated Indicator IE	5.3.0	5.4.0
12/2002	18	RP-020744	756		Correction for the DL DPDCH transmission	5.3.0	5.4.0
12/2002	18	RP-020855	757	3	MAC-hs Window Size	5.3.0	5.4.0
12/2002	18	RP-020743	763	1	DSCH-RNTI in RADIO LINK SETUP FAILURE	5.3.0	5.4.0
03/2003	19	RP-030068	767		Clarification to DL Power definition for TDD	5.4.0	5.5.0
03/2003	19	RP-030077	768	2	Correction to DL Tx Power for TDD	5.4.0	5.5.0
03/2003	19	RP-030072		1	TPC Step Size for TDD	5.4.0	5.5.0
03/2003	19	RP-030069			Clarification to 2 <sup>nd</sup> Interleaving Mode for TDD	5.4.0	5.5.0
03/2003	19	RP-030078		1	HS-PDSCH RNSAP Corrections for TDD	5.4.0	5.5.0
03/2003	19	RP-030073		1	Clarification of HS-SCCH power offset usage in case of multiple	5.4.0	5.5.0
	-			<u> </u>	HS-SCCHs		
03/2003	19	RP-030062	-	-	Correction of Guaranteed DL Rate	5.4.0	5.5.0
03/2003	19	RP-030062		1	Correction of the TDD UE capabilities necessary to pass from SRNC to CRNC	5.4.0	5.5.0
03/2003	19	RP-030080	-	1	Measurement for HS-SICH Outer Loop Power Control	5.4.0	5.5.0
03/2003	19	RP-030082	784	1	Corrections to Channelisation Code TFCI Mapping for TDD	5.4.0	5.5.0
03/2003	19	RP-030070	786		Correction for the Information Exchange Initiation procedure	5.4.0	5.5.0
03/2003	19	RP-030074	787	1	T1 signalling for HSDPA	5.4.0	5.5.0
03/2003	19	RP-030183	790	5	Support of Cell Individual Offset in RNSAP	5.4.0	5.5.0
03/2003	19	RP-030071	792		Midamble Configuration for Midamble Shift LCR	5.4.0	5.5.0
03/2003	19		796		Alignment of "Uncertainty Ellipse" with RRC	5.4.0	5.5.0
03/2003	19	RP-030058		2	Uplink Timing Advance Control Parameters in LCR TDD	5.4.0	5.5.0
03/2003	19	RP-030119		1	Signalling of Midamble Shift and Burst type for HS-PDSCH in TDD	5.4.0	5.5.0
03/2003	19	RP-030066		•	Corrections to DCH Combining in RL SETUP and RL ADDITION	5.4.0	5.5.0
03/2003	19	RP-030058			Correction on CGA Additional Shapes	5.4.0	5.5.0
03/2003	19	RP-030076		2	Guaranteed Bit Rate for HSDPA	5.4.0	5.5.0
06/2003	20	RP-030332		~	Alignment of TDD HSDPA parameters to RAN2 and RAN 1.	5.5.0	5.6.0
06/2003	20	RP-030333			HSDPA General Corrections	5.5.0	5.6.0
06/2003	20	RP-030358		3	Group reset	5.5.0	5.6.0
06/2003	20	RP-030334		5	TDD Channelisation Code LCR correction for HSDPA	5.5.0	5.6.0
	20	RP-030319			Correction of the figure of the Information Exchange Failure	5.5.0	5.6.0
					procedure		
06/2003	20	RP-030324		1	Alignment of the Requested Data Value Information IE description	5.5.0	5.6.0
06/2003	20	RP-030325			GPS trigger condition	5.5.0	5.6.0
06/2003	20	RP-030319	-		Alignment of tables in Information Exchange Initiation procedure description	5.5.0	5.6.0
06/2003	20	RP-030329	832	2	HS-SCCH Change Indicator	5.5.0	5.6.0
06/2003	20	RP-030335	835		Correction to HARQ Memory Partitioning	5.5.0	5.6.0
06/2003	20	RP-030337			Correction for the value range of "CQI Feedback cycle, k"	5.5.0	5.6.0
06/2003	20	RP-030279		2	Clarification for the handling of the HS-DSCH	5.5.0	5.6.0
06/2003	20	RP-030328		2	Resource handling of HS-DSCH Guaranteed Bit Rate	5.5.0	5.6.0
06/2003	20	RP-030326			Correction of Failure message used for logical errors	5.5.0	5.6.0
09/2003	21	RP-030451		2	Discard timer signalling for HSDPA	5.6.0	5.7.0
09/2003	21	RP-030452		1	Phase Reference Signalling Support	5.6.0	5.7.0
09/2003	21	RP-030449		2	HS-DSCH Priority Queue to Modify	5.6.0	5.7.0
09/2003	21	RP-030536		2	MAC-hs Reordering Buffer Size	5.6.0	5.7.0
09/2003	21	RP-030443		~	Corrections to Tx Diversity	5.6.0	5.7.0
09/2003	21	RP-030443 RP-030440		1	Correction of the Measurement Increase/Decrease Threshold IE	5.6.0	5.7.0
09/2003	21	RP-030440 RP-030444		1	"On Modification" and "Periodic" reporting alignment for Information	5.6.0	5.7.0
00/0000	04	DD 000 1 15	057		Exchange procedures	500	E 7 0
09/2003	21	RP-030445			Alignment of title and sub-clause text of chapter 10.3.4.2	5.6.0	5.7.0
	21	RP-030440			Corrections on Uplink Signalling Transfer	5.6.0	5.7.0
09/2003	<b>a</b> 4			2	Coordination with RRC about the TFS of DL DCH for HS-DSCH	5.6.0	5.7.0
09/2003 09/2003	21	RP-030447					
09/2003 09/2003 09/2003	21	RP-030453	862	1	HS-DSCH information usage description clarification	5.6.0	5.7.0
09/2003 09/2003 09/2003 09/2003	21 21	RP-030453 RP-030440	862 865		HS-DSCH information usage description clarification RNSAP correction for CRRM alignment	5.6.0 5.6.0	5.7.0
09/2003 09/2003 09/2003 09/2003 09/2003	21 21 21	RP-030453 RP-030440 RP-030446	862 865 866	1	HS-DSCH information usage description clarification RNSAP correction for CRRM alignment Removal of the note in chapter 10	5.6.0 5.6.0 5.6.0	5.7.0 5.7.0
09/2003 09/2003 09/2003 09/2003	21 21	RP-030453 RP-030440	862 865 866	1	HS-DSCH information usage description clarification RNSAP correction for CRRM alignment	5.6.0 5.6.0	5.7.0

					indicator.		
12/2003	22	RP-030692			Reconfiguration of Multiple Radio Links in TDD	5.7.0	5.8.0
12/2003	22	RP-030693			The usage of the MAC-hs Reordering Buffer Size	5.7.0	5.8.0
12/2003	22	RP-030691		1	Range Extension for GPS Almanac Reporting	5.7.0	5.8.0
12/2003	22	RP-030713		2	Explicit HARQ Memory Partitioning Clarification	5.7.0	5.8.0
12/2003	22	RP-030686		1	RT Load Value Clarification	5.7.0	5.8.0
12/2003	22	RP-030677		1	RNSAP TDD Review	5.7.0	5.8.0
12/2003	22	RP-030684		1	Removal of the ambiguity about the activation time	5.7.0	5.8.0
12/2003	22	RP-030690		2	Correction to Addition of HS-DSCH MAC-d Flows	5.7.0	5.8.0
12/2003 12/2003	22	RP-030695 RP-030694		2	Unsynchronised RL Reconfiguration for HSDPA TNL QoS for uplink IP traffic	5.7.0	5.8.0
12/2003	22 22	RP-030694 RP-030689		2	Correction of Transmission Gap Pattern Sequence Information	5.7.0 5.7.0	5.8.0 5.8.0
12/2003	22	RP-030683			Information Exchange Initiation behavior correction	5.7.0	5.8.0
12/2003	22	RP-030683 RP-030677		2	RNSAP review	5.7.0	5.8.0
12/2003	22	RP-0307726		2	Signalling Support for Beamforming Enhancement	5.8.0	6.0.0
03/2004	22	RP-040052			Correction of RL Congestion Indication	6.0.0	6.1.0
03/2004	23	RP-040032			Interference measurement in UpPTS for 1.28Mcps TDD	6.0.0	6.1.0
03/2004	23	RP-040074			Introduction of UE measurement forwarding over the lur for TDD	6.0.0	6.1.0
03/2004	23	RP-040074			Ignore Criticality for RL Activation Command	6.0.0	6.1.0
03/2004	23	RP-040070			Ignore Criticality for RL Parameter Update	6.0.0	6.1.0
03/2004	23	RP-040070			Corrections for HS-DSCH Configuration Signalling	6.0.0	6.1.0
03/2004	23	RP-040065		1	Priority Queue ID for HSDPA	6.0.0	6.1.0
03/2004	23	RP-040000	-	-	Correction of ASN.1 code	6.0.0	6.1.0
03/2004	23	RP-040070 RP-040053				6.0.0	6.1.0
03/2004	23	RP-040055 RP-040067			Correction Related to HS-DSCH Information Response	6.0.0	6.1.0
03/2004	23	RP-040059			Correction to the threshold of Rx Timing Deviation LCR in tabular	6.0.0	6.1.0
03/2004	23	RP-040059 RP-040068			Extension of the range of PCCPCH RSCP	6.0.0	6.1.0
03/2004	23	RP-040069			Introduce the description of AOA measurement in the Allowed	6.0.0	6.1.0
00/2004	20	111-040005	550		Combinations of Dedicated Measurement	0.0.0	0.1.0
03/2004	23	RP-040070	942		Criticality Settings for HSDPA.	6.0.0	6.1.0
03/2004	23	RP-040070			GA Incompatibility issue	6.0.0	6.1.0
03/2004	23	RP-040064			Setting of TGPSI	6.0.0	6.1.0
03/2004	23	RP-040057			DCH Information Response Issue	6.0.0	6.1.0
06/2004	24	RP-040175		1	Correction the presence of Traffic Class IE	6.1.0	6.2.0
06/2004	24	RP-040175		1	Inclusion of scrambling code information in HS-DSCH FDD Information Response IE	6.1.0	6.2.0
06/2004	24	RP-040178	961		Node B usage of the MAC-hs re-ordering buffer size	6.1.0	6.2.0
06/2004	24	RP-040180		1	Unsuccessful Operation of RL Setup Procedure for HSDPA	6.1.0	6.2.0
06/2004	24	RP-040184		1	Measurement Recovery Behavior for Common and Dedicated Measurement Procedures	6.1.0	6.2.0
06/2004	24	RP-040182	967	3	Introduction of support of NetworkAssisstedCellChange from UTRAN to GERAN	6.1.0	6.2.0
06/2004	24	RP-040179			Clarification on number of and capacity reporting of Priority Queues	6.1.0	6.2.0
06/2004	24	RP-040184			Correction of HS-SICH reception quality	6.1.0	6.2.0
06/2004	24	RP-040181	976		Power Balancing Corrections	6.1.0	6.2.0
06/2004	24	RP-040175			HSDPA Corrections in RL Reconfiguration	6.1.0	6.2.0
06/2004	24	RP-040183		1	Trace Parameter Propagation over the lur	6.1.0	6.2.0
09/2004	25	RP-040307		1	Correction of Trace reference in Deactivate trace	6.2.0	6.3.0
09/2004	25	RP-040302			Correction to tabular text associated with TDD DPCH Offset IE	6.2.0	6.3.0
09/2004	25	RP-040300		1	Traffic Class IE in RNSAP	6.2.0	6.3.0
12/2004	26	RP-040435		1	Correction to the Assigned Criticality of UL Synchronisation Parameters LCR IE for 1.28Mcps TDD	6.3.0	6.4.0
12/2004	26	RP-040437		2	MBMS changes for RNSAP	6.3.0	6.4.0
12/2004	26	RP-040433			Correction of reference to "MAC-hs Guaranteed Bit Rate"	6.3.0	6.4.0
12/2004	26	RP-040433	1004		Correction of duplicated and misplaced procedure text for RL Addition	6.3.0	6.4.0
12/2004	26	RP-040433			procedure text	6.3.0	6.4.0
12/2004	26	RP-040440		2	Changes for Introducing EDCH	6.3.0	6.4.0
12/2004	26	RP-040441			outdated ITU-T reference	6.3.0	6.4.0
12/2004	26	RP-040519	1011		HS-DPCCH ACK/NACK preamble and postamble	6.3.0	6.4.0
01/2005		l				6.4.0	6.4.1
03/2005	27	RP-050057		3	Optimisation of MBMS channel type indication via lur	6.4.1	6.5.0
03/2005	27	RP-050038		1	Removal of TGPL2	6.4.1	6.5.0
)3/2005	27	RP-050053			Wrong HS IE referenced	6.4.1	6.5.0
)3/2005	27	RP-050054			Measurement Power Offset IE procedure text missing	6.4.1	6.5.0
)3/2005	27	RP-050058		1	Correction of RNSAP E-DCH IEs	6.4.1	6.5.0
03/2005	27	RP-050057		2	MBMS Identifiers Retrieval	6.4.1	6.5.0
03/2005	27	RP-050056		1	Introduction of Fractional DPCH	6.4.1	6.5.0
03/2005	27	RP-050059			Initial Radio Link Timing Adjustment	6.4.1	6.5.0
						0 4 4	
03/2005 03/2005 03/2005	27 27	RP-050058 RP-050053			EDCH RNSAP ASN.1 Interaction between Synchronised RL Reconfiguration and RL	6.4.1	6.5.0 6.5.0

322005         27         PP-50524 (M2)         Clarification on HS-DSCH Information IE         6.4.1         6.5.0         6.6.0           062005         28         RP-050524 (M2)         3         Timing minimated and MO         6.5.0         6.6.0           062005         28         RP-050523 (1061)         Correction to the RL Record for serving HS-DSCH coll change         6.5.0         6.6.0           062005         28         RP-050523 (1052)         Correction to the on demand measurement with no DPCH ID in the         6.5.0         6.6.0           062005         28         RP-050524 (1056)         Feature Cleanup, Removal of Corrections and the on demand measurement with no DPCH ID in the         6.5.0         6.6.0           062005         28         RP-050524 (1057)         Feature cleanup, Removal of Corrections and no setup of the one demand measurement with no DPCH ID in the descenter cleanup. Removal of DSCH (PDD mode)         6.5.0         6.6.0           0622005         28         RP-050221 (1077)         Feature cleanup. Removal of SSDT         6.5.0         6.6.0           0622005         28         RP-050221 (1076)         1         Feature Cleanup. Removal of SSDT         6.5.0         6.6.0           0622005         28         RP-050221 (1076)         1         Feature Cleanup. Removal of SSDT         6.5.0         6.6.0						Deletion		
06/2005         28         RP-505217 [104 1         Correction to the R. Record for serving HS-DSCH cell change         6.5.0         6.6.0           06/2005         28         RP-505217 [104 1         Correction to the on demain mesurement with no DPCH ID in the         6.5.0         6.6.0           06/2005         28         RP-50523 [105 1         Correction to the on demain mesurement with no DPCH ID in the         6.5.0         6.6.0           06/2005         28         RP-50523 [105 1         Feature Cleanup. Removal of CPCH         6.5.0         6.6.0           06/2005         28         RP-50522 [1067 1         Feature Cleanup. Removal of CPCH         6.5.0         6.6.0           06/2005         28         RP-50522 [1067 1         Feature Cleanup. Removal of DPCH [100 mode)         6.5.0         6.6.0           06/2005         28         RP-50522 [1067 1         Feature Cleanup. Removal of SDGH [100 mode)         6.5.0         6.6.0           06/2005         28         RP-50522 [107 1         Feature Cleanup. Removal of SDGH [100 mode)         6.5.0         6.6.0           06/2005         28         RP-50522 [107 1         Feature Cleanup. Removal of SDGH [100 mode)         6.5.0         6.6.0           06/2005         28         RP-50522 [107 1         Feature Cleanup. Removal of SDGH [100 mode)         6.6.0	03/2005	27	RP-050053	1043			641	650
08/2006         28         RP-050237         1060         Proposed CR 12.5.4.2.8 [Re-1] on some IEs with Salth 0         6.5.0         6.6.0           06/2005         28         RP-050233         1051         Correction to the on demand measurement with no DPCH ID in the 6.5.0         6.6.0           06/2005         28         RP-050223         1059         Feature Cleanup: Removal of CPCH To D         6.6.0           06/2005         28         RP-050223         1059         Feature Cleanup: Removal of Corrected mode by puncturing.         6.5.0         6.6.0           06/2005         28         RP-050223         1066         1         Feature Cleanup: Removal of SCH (PD mode)         6.5.0         6.6.0           06/2005         28         RP-050221         1067         1         Feature Cleanup: Removal of SCH (PD mode)         6.5.0         6.6.0           06/2005         28         RP-050221         1077<1					3			
06/2005         28         RP-050233         1050         Propsed CR 025,423         Rel-16         6.0           06/2005         28         RP-050233         1051         Correction to the on demand mesurement with no DPCHIID in the         6.5.0         6.6.0           06/2005         28         RP-05023         1052         3         Revision to HARQ Persentible Mode support         6.5.0         6.6.0           06/2005         28         RP-050223         1050         1         Feature Cleanup: Removal of Corpuresed mode by puncturing         6.5.0         6.6.0           06/2005         28         RP-050221         1067         1         Feature Cleanup: Removal of X-dimetry doted top mode 2         6.5.0         6.6.0           06/2005         28         RP-050221         1071         Feature Cleanup: Removal of X-dimetry DotCh tor all other         6.5.0         6.6.0           06/2005         28         RP-050221         1076         1         Correction on F-RGCH May topotal of SDT         6.5.0         6.6.0           06/2005         28         RP-050221         1076         1         Correction on F-RGCH May topotal of SDT         6.5.0         6.6.0           06/2005         28         RP-050221         1076         1         Introdmaton may topotal of SDT		-			-			
062/000         28         RP-050233         1061         Correction to the on-demand measurement with no DPCH ID in the 6.5.0         6.6.0           062/005         28         RP-050223         1052         3         Revision to HARQ Preamble Mode support         6.5.0         6.6.0           062/005         28         RP-050223         1060         1         F-2004 Clanus         6.5.0         6.6.0           062/005         28         RP-050224         1066         1         F-attor clanus         6.5.0         6.6.0	06/2005							
06/2005         28         RP-650225         1069         Feature Cleanu; Renoval of CPCH         6.5.0         6.6.0           06/2005         28         RP-650225         1066         I         E-DCH general corrections and improvements         6.5.0         6.6.0           06/2005         28         RP-650221         1067         I         Feature clean-up: Removal of TX diversity closed loop mode2         6.5.0         6.6.0           06/2005         28         RP-650221         1068         I         Feature clean-up: Removal of SNP (FDD mode)         6.5.0         6.6.0           06/2005         28         RP-650221         1071         I         Feature Clean-up: Removal of SNP (FDD mode)         6.5.0         6.6.0           06/2005         28         RP-650219         1076         I         Feature Clean-up: Removal of SNP (FDD mode)         6.5.0         6.6.0           06/2005         28         RP-650239         1077         I         Feature Clean-up: Removal of SNP (MS and SNP (MS	06/2005	28	RP-050233	1051		Correction to the on demand mesurement with no DPCH ID in the	6.5.0	6.6.0
062005         28         RP-60229         1066         1         E-DCH general corrections and improvements         6.5.0         6.6.0           062005         28         RP-60221         1067         1         Feature clean-up: Removal of CMPH (FDD mode)         6.5.0         6.6.0           062005         28         RP-60221         1068         1         Feature clean-up: Removal of XMPH (FDD mode)         6.5.0         6.6.0           062005         28         RP-60221         1071         1         Feature Clean-up: Removal of SNPT (FDD mode)         6.5.0         6.6.0           062005         28         RP-60221         1073         1         Feature Clean-up: Removal of SNPT         6.5.0         6.6.0           062005         28         RP-60223         1076         1         Feature Clean-up: Removal of SNPT         6.5.0         6.6.0           062005         28         RP-60223         1076         1         Introduction of Bunding Feature         6.5.0         6.6.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0 <td< td=""><td>06/2005</td><td>28</td><td>RP-050236</td><td>1052</td><td>3</td><td></td><td>6.5.0</td><td>6.6.0</td></td<>	06/2005	28	RP-050236	1052	3		6.5.0	6.6.0
062005         28         RP-650224         1065         1         Feature clean-up: Removal of X diversity closed loop mode2         6.5.0         6.6.0           062005         28         RP-650221         1067         1         Feature clean-up: Removal of DSCH (FDD mode)         6.5.0         6.6.0           062005         28         RP-650221         1071         1         Feature clean-up: Removal of DSCH (FDD mode)         6.5.0         6.6.0           062005         28         RP-650221         1075         1         Feature Clean-up: Removal of Support of dedicated pilot as sole         6.5.0         6.6.0           062005         28         RP-650221         1075         1         Feature Clean-up: Removal of SDT         6.5.0         6.6.0           062005         28         RP-650223         1077         1         Correction on R-RGCH Sequence Signature         6.5.0         6.6.0           062005         28         RP-650223         1071         1         Correction and RNSAP with latest status of EUDCH stage 2 (TS         6.5.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0	06/2005	28	RP-050225	1059		Feature Cleanup: Removal of CPCH	6.5.0	6.6.0
062005         28         RP-650221         1067         1         Feature clean-up: Removal of DSCH (FDD mode)         6.5.0         6.6.0           062005         28         RP-650211         1061         1         Feature clean-up: Removal of SDCH (FDD mode)         6.5.0         6.6.0           062005         28         RP-65021         1073         1         Feature Clean-up: Removal of Support of dedicated pilot as sole         6.5.0         6.6.0           062005         28         RP-650220         1073         1         Feature Clean-up: Removal of Support of dedicated pilot as sole         6.5.0         6.6.0           062005         28         RP-650230         1076         1         Feature Clean-up: Removal of SUDT         6.5.0         6.6.0           062005         28         RP-650230         1077         1         Introduction of Bunding Feature         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         6.6.0         6.7.0         6.5.0         <	06/2005	28	RP-050229	1060	1	E-DCH general corrections and improvements	6.5.0	6.6.0
06/2005         28         RP-05022         1069         1         Feature Clean-up. Removal of DSCH (FDD mode)         6.5.0         6.6.0           06/2005         28         RP-050226         1071         1         Feature Clean-up. Removal of Support of declarated pilot as sole         6.5.0         6.6.0           06/2005         28         RP-050229         1075         1         Feature Clean-up. Removal of SSDT         6.5.0         6.6.0           06/2005         28         RP-050229         1077         1         Correction on E-RGCH Sequence Signature         6.5.0         6.6.0           06/2005         28         RP-050229         1077         1         Correction on E-RGCH Sequence Signature         6.5.0         6.6.0           06/2005         28         RP-050239         1077<1	06/2005				1			
06/2005         28         RP-050218         1071         1         Feature Clean-up: Removal of 80 ms TTI tor DCH for all other cleases but when the UE supports ST512         6.5.0         6.6.0           06/2005         28         RP-050220         1073         Feature Clean-up: Removal of Support of dedicated pilot as sole base reference         6.5.0         6.6.0           06/2005         28         RP-050220         1076         1         Creation of EAGCH Sequence Signature         6.5.0         6.6.0           06/2005         28         RP-050230         1076         1         Introduction of Bunding Feature         6.5.0         6.6.0           06/2005         28         RP-050239         1076         1         Introduction of Bunding Feature         6.6.0         6.6.0         6.6.0         6.6.0         6.6.0         6.6.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.6.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6					1			
cases but when the UE supports SF512         cases but when the UE supports SF512         cases but when the UE supports SF512           062/2005         28         RP-050220         1073         I Feature Clean-up: Removal of Support of dedicated pilot as sole         6.5.0         6.6.0           062/2005         28         RP-050220         1077         I Introduction of Bundling Feature         6.5.0         6.6.0           062/2005         28         RP-050220         1077         I Introduction of Bundling Feature         6.5.0         6.6.0           062/2005         28         RP-050230         1077         I Introduction of Bundling Feature         6.5.0         6.6.0           062/2005         28         RP-050231         1081         I Congestion control for HSDPA         6.5.0         6.6.0         6.7.0           062/2005         29         RP-050391         1082         2 Adding frequency band indicator         6.6.0         6.7.0         6.6.0         6.7.0           092/2005         29         RP-050341         1085         2 - Adding frequency band indicator         6.6.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0					1			
phase reference         phase reference         c.         b.           0622005         28         RP-050229         1075         1         Correction on E-RGCH Sequence Signature         6.5.0         6.6.0           0622005         28         RP-050229         1077         1         Introduction of Bundling Feature         6.5.0         6.6.0           0622005         28         RP-050229         1078         1         Alignment of RNSAP with latest status of EUDCH stage 2 (TS         6.5.0         6.6.0           0622005         28         RP-050231         1081         1         Congestion control for HSDPA         6.5.0         6.6.0         6.7.0           0822005         29         RP-050331         1084         E.OCH capability in neighboring cells         6.6.0         6.7.0           0822005         29         RP-050343         1085         2. Adding frequency band indicator         6.6.0         6.7.0           0822005         29         RP-050343         1085         2. COH casability incervice of re-DCH         6.6.0         6.7.0           0822005         29         RP-050343         1086         1. COH casability europy tells are serving cell change         6.6.0         6.7.0           0822005         29         RP-050343					1	cases but when the UE supports SF512		
06/2005         28         RP-050229         1077         1         Introduction of E-RGCH Sequence Signature         6.5.0         6.6.0           06/2005         28         RP-050229         1078         1         Alignment of RNSAP with latest status of EUDCH stage 2 (TS         6.5.0         6.6.0           06/2005         28         RP-050229         1078         1         Compession control for HSDPA         6.5.0         6.6.0           06/2005         28         RP-05029         1081         Compession control for HSDPA         6.5.0         6.6.0           09/2005         29         RP-050421         1084         EDCH capability in neighboring cells         6.6.0         6.7.0           09/2005         29         RP-050431         1087         1         Carrection of ambiguity introduced by "feature cleanup"         6.6.0         6.7.0           09/2005         29         RP-050431         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050431         1096         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050431         1097         EDCL visuitik to Maximum UT XP ower for E-DCH         6.6.0         6.7.0         6.8.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>phase reference</td><td></td><td></td></t<>						phase reference		
06/2005         28         RP-050230         1077         1         Introduction of Bunding Feature         6.5.0         6.6.0           06/2005         28         RP-050235         1078         1         Alignment of RNSAP with latest status of EUDCH stage 2 (TS         6.5.0         6.6.0           06/2005         28         RP-050225         1080         1         Congestion control for HSDPA         6.5.0         6.6.0         6.7.0           09/2005         29         RP-050433         1084         EDCH stage30111111111111111111111111111111111111		-						
06/2005         28         RP-050229         1078         1         Alignment of RNSAP with latest status of EUDCH stage 2 (TS         6.5.0         6.6.0           06/2005         28         RP-050225         1080         1         Congestion control for HSDPA         6.5.0         6.6.0           06/2005         29         RP-05027         1082         3         RNSAP stage 3 alignment with current status         6.6.0         6.7.0           08/2005         29         RP-050431         1084         EDCH capability innoduced by 'feature cleanup''         6.6.0         6.7.0           08/2005         29         RP-050431         1087         1         Correction of ambiguity innoduced by 'feature cleanup''         6.6.0         6.7.0           08/2005         29         RP-050431         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           08/2005         29         RP-050433         1097         EDCH cleanup         Correction of ambiguity innoduced by 'feature cleanup''         6.6.0         6.7.0           08/2005         29         RP-050431         1097         EDCH cleanup         EDCH         6.6.0         6.7.0           08/2005         29         RP-050431         1097         I Maximum UT X Power for E-DCH         6.6.0 <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>					•			
Bit Mathematical Construction         Instruction         Inst								
06/2006         28         RP-05028         1081         Direct Information Transfer for MBMS purposes         6.5.0         6.6.0         6.7.0           09/2005         29         RP-050697         1082         3         RNSAP stage 3 alignment with current status         6.6.0         6.7.0           09/2005         29         RP-050433         1084         EDCH capability in neighboring cells         6.6.0         6.7.0           09/2005         29         RP-050431         1087         I         Correction of ambiguity introduced by "feature cleanup"         6.6.0         6.7.0           09/2005         29         RP-050433         1096         1         Maximum UE TX Power for E-DCH         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           12/2005         30         RP-050698         1104         PDD Downlink Undirectional DCH Indicator         6.7.0         6.8.0           12/2005         30         RP-050698         1105         FDD Duvink Undirectional DCH Indicator         6.7.0         6.8.0           12/2005         30         RP-050698         1106         Corrections to the synchronised radiu fink reconfiguration         6.7.0						25.309) and RRC (TS 25.331)		
09/2006         29         RP-050997         1082         3         RNSAP stage 3 alignment with current status         6.6.0         6.7.0           09/2006         29         RP-050431         1084         EDCH capability inroduced by "feature cleanup"         6.6.0         6.7.0           09/2006         29         RP-050431         1097         1         Feature Cleanup: Renvoal of DRAC         6.6.0         6.7.0           09/2005         29         RP-050431         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           09/2005         29         RP-050695         1101         2         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050695         1104         FDD Dunitive Lundricator reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050696         1107         4         HARD Process ing issue and rate limitation         6.7.0         6.8.0 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>					1			
0922005         29         RP-050431         1084         EDCH capability inrelighboring cells         6.6.0         6.7.0           092005         29         RP-050431         1087         1         Correction of ambiguity introduced by "feature cleanup."         6.6.0         6.7.0           092005         29         RP-050432         1091         1         Feature Cleanup. Removal of DRAC         6.6.0         6.7.0           092005         29         RP-050433         1095         EDCH Inscellaneous corrections         6.6.0         6.7.0           092005         29         RP-050433         1096         EDCH cleanup.         6.6.0         6.7.0           092005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           122005         30         RP-050695         1104         FDD Downlink Unidirectional DCH Indicator reconfiguration         6.7.0         6.8.0           122005         30         RP-050695         1105         3         FDD Unidirectional DCH Indicator reconfiguration procedure         6.7.0         6.8.0           122005         30         RP-050694         1107         4 HARQ Process Management for E-DCH         6.7.0         6.8.0           122005					~			
09/2005         29         RP-050444         1085         2         Adding frequency band indicator         6.6.0         6.7.0           09/2005         29         RP-050431         1087         1         Correction of ambiguity introduced by "feature cleanup."         6.6.0         6.7.0           09/2005         29         RP-050433         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1095         EDCH cleanup         Corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0         6.8.0         6.7.0           12/2005         30         RP-050698         1101         2         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050698         11016         1         Corrections to the synchronised radio link reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050698         1101         4         HARQ Processing insue and rate limitation         6.7.0         6.8.0           12/2005         30         RP-050698         11111         3					3			
09/2005         29         RP-050431         1087         1         Correction of ambiguity introduced by "feature cleanup."         6.6.0         6.7.0           09/2005         29         RP-050433         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1096         EDCH cleanup         6.6.0         6.7.0           09/2005         29         RP-050689         1101         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050689         1106         1         Correctios to the synchronised radio link reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050689         1106         1         Correctios to the synchronised radio link reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050689         1108         2         E-DCH processing issue and rate limitation         6.7.0         6.8.0           12/2005         30         RP-050689         1111         1         Correction on E-DCH MAC-Flow to Add IE         6.7.0					2			
09/2005         29         RP-050432         1091         1         Feature Cleanup: Removal of DRAC         6.6.0         6.7.0           09/2005         29         RP-050433         1095         E-DCH miscellaneous corrections         6.6.0         6.7.0           09/2005         29         RP-050433         1097         EDCH cleanup         Power for E-DCH         6.6.0         6.7.0           09/2005         29         RP-050433         1097         EDCH cleanup         6.6.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         6.7.0         6.8.0         7.7.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
09/2005         29         RP-050433         1096         I Maximum UE TX Power for E-DCH         6.6.0         6.7.0           09/2005         29         RP-050433         1097         EDCH cleanup         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0         6.8.0           12/2005         30         RP-050695         1105         1         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050698         1106         1         Correctios to the synchronised radio link reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1109         1         Cleanup of editorials found during the Rel6 review before         6.7.0         6.8.0           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1112         Correction for HARC-Fiow to Add IE					1			
09/2005         29         RP-050431         1096         1         Maximum UE TX Power for E-DCH         6.6.0         6.7.0           09/2005         29         RP-050433         1097         EDCH cleanup         6.6.0         6.7.0           09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           12/2005         30         RP-050695         1104         FDD Downlink Unidirectional DCH Indicator reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050698         1106         1         Correctios to the synchronised radio link reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1107         4         HARQ Processing Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1101         1         Clerencising Issue and rate limitation         6.7.0         6.8.0           12/2005         30         RP-050696         1113         1         Clerencisin on E-DCH MAC-Flow to Add IE         6.7.0         6.8.0           12/2005         30         RP-050696         1112         1         Correction on E-DCH MAC-Flow to Add IE         6.7.0								
09/2005         29         RP-050433         1097         EDCH cleanup         6.6.0         6.7.0           09/2005         29         RP-050689         1101         2         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050689         1101         2         Indexed Inter-frequency RACH measurement reporting         6.7.0         6.8.0           12/2005         30         RP-050695         1105         3         FDD Downlink Unidirectional DCH Indicator reconfiguration procedure for 1.28Mcps TDD         6.7.0         6.8.0           12/2005         30         RP-050694         1107         4         HARQ Process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1107         4         HARQ Process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1111         1         Carrection for HARQ Process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050695         1112         1         Correction for HARQ Process Managements         6.7.0         6.8.0           12/2005         30         RP-050695         1112         Correction for HARQ Preamble an					1			
09/2005         29         RP-050433         1098         Reconfiguration of E-RGCH/HICH at serving cell change         6.6.0         6.7.0           12/2005         30         RP-050695         1104         FDD Downlink Unidirectional DCH Indicator         6.7.0         6.8.0           12/2005         30         RP-050695         1105         3         FDD Unidirectional DCH Indicator reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050694         1106         1         Corrections to the synchronised radio link reconfiguration procedure for 1.28Mcps TDD         6.7.0         6.8.0           12/2005         30         RP-050694         1107         4         HARQ Process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1101         2         Cleanup of editorials found during the Rel6 review before         6.7.0         6.8.0           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1112         2         Correction on HARQ Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1121					-			
12/2005         30         RP-050695         1104         FDD Downlink Unidirectional DCH Indicator         6.7.0         6.8.0           12/2005         30         RP-050696         1106         3         FDD Unidirectional DCH Indicator reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1106         1         Correctios to the synchronised radio link reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1108         2         E-DCH processing issue and rate limitation         6.7.0         6.8.0           12/2005         30         RP-050698         1109         1         Cleanup of editorials found during the Relf eview before         6.7.0         6.8.0           12/2005         30         RP-050698         1111         2         Correction of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1112         1         Correction of RARA Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1117         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050696         1121<	09/2005	29					6.6.0	
12/2005         30         RP-050695         1105         3         FDD Unidirectional DCH Indicator reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050698         1106         1         Correctios to the synchronised radio link reconfiguration procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1108         2         E-DCH process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1109         1         Cleanup of editorials found during the Rel6 review before         6.7.0         6.8.0           12/2005         30         RP-050694         1112         1         Correction freezing         6.7.0         6.8.0           12/2005         30         RP-050696         1112         1         Correction on E-DCH MAC-Flow to Add IE         6.7.0         6.8.0           12/2005         30         RP-050696         1114         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050694         1117         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050694         1120         1         ASN.1	12/2005	30	RP-050698	1101	2		6.7.0	6.8.0
12/2005         30         RP-050698         1106         1         Correctios to the synchronised radio link reconfiguration procedure for 1.28Mcps TDD         6.7.0         6.8.0           12/2005         30         RP-050694         1107         4         HARQ Process Management for E-DCH         6.7.0         6.8.0           12/2005         30         RP-050694         1107         1         Cleanup of editorials found during the Rele review before specification freezing         6.7.0         6.8.0           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1112         1         Correction for HARQ Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050696         1121         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050696         1121         1         EDCH ell Capability Enhancement         6.7.0         6.8.0           12/2005         30	12/2005							
Image: constraint of the image is	12/2005							
12/2005         30         RP-050694         1108         2         E-DCH processing issue and rate limitation         6.7.0         6.8.0           12/2005         30         RP-050698         1109         1         Cleanup of editorials found during the Rel6 review before specification freezing         6.7.0         6.8.0           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         Correction on TARA Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050688         1120         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION         6.7.0         6.8.0           12/2005         30         RP-050689         1121         1         EDCH HARQ RV Configuration         6.7.0         6.8.0           12/2005         30         RP-050684         1123         1         EDCH HARQ CV Configuration         6.7.0         6.8.0           12/2005         30         RP-050649         1124         <	12/2005				1	for 1.28Mcps TDD		
12/2005         30         RP-050698         1109         1         Cleanup of editorials found during the Rel6 review before specification freezing         6.7.0         6.8.0           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1113         2         Correction on E-DCH MAC-Flow to Add IE         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         BPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050696         1117         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050689         1121         1         EDCH and NS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050689         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           12/2005         30         RP-050689         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           12/2005         30         RP-060064         1124         1         E-	12/2005							
Image: Specification freezing         specification freezing           12/2005         30         RP-050694         1111         3         Alignment of RNSAP with latest HSUPA agreements         6.7.0         6.8.0           12/2005         30         RP-050696         1112         1         Correction on E-DCH MAC-Flow to Add IE         6.7.0         6.8.0           12/2005         30         RP-050696         1113         2         Correction for HARQ Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1117         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050696         1121         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION         6.7.0         6.8.0           12/2005         30         RP-050696         1121         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050696         1122         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050694         1125         1         E-DCH HARQ Configuration         6.7.0         6.8.0         6.9.0           03/2006								
12/2005         30         RP-050697         1112         1         Correction on E-DCH MAC-Flow to Add IE         6.7.0         6.8.0           12/2005         30         RP-050696         1113         2         Correction for HARQ Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050698         1120         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION         6.7.0         6.8.0           12/2005         30         RP-050696         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050695         1124         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0         6.9.0           03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with R.8.0         6.8.0         6.8.0         6.9.0           03/2006         31         RP-060064         1133					-	specification freezing		
12/2005         30         RP-050696         1113         2         Correction for HARQ Preamble and Postamble         6.7.0         6.8.0           12/2005         30         RP-050696         1114         4         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050688         1120         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050688         1120         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION         6.7.0         6.8.0           12/2005         30         RP-050695         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050849         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           12/2006         31         RP-060064         1124         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH MacD PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving EDCH cell change         6.8.0								
12/2005         30         RP-050696         1114         4         HSPA Serving Cell Change by RL Addition Procedure         6.7.0         6.8.0           12/2005         30         RP-050684         1112         I         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050688         1120         I         ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD         6.7.0         6.8.0           12/2005         30         RP-050696         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050694         1124         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1139         Error Correction Radio Link Parameter U							-	
12/2005         30         RP-050694         1117         1         EDCH setup by unsynchronised reconfiguration         6.7.0         6.8.0           12/2005         30         RP-050688         120         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD         6.7.0         6.8.0           12/2005         30         RP-050696         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050694         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060064         1134         1         Combined Active Set Update and E-DCH Serving Cell Change with         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH MacD PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell c								
12/2005         30         RP-050688         1120         1         ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD         6.7.0         6.8.0           12/2005         30         RP-050696         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050849         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060064         1124         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         Combined Active Set Update and E-DCH Serving Cell Change with Radio Link Addition Request (Inter RNC Case)         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HSDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         Correction of criticality for								
READY TDD         READY TDD           12/2005         30         RP-050696         1121         FDPCH and HS-SCCH power offset         6.7.0         6.8.0           12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050849         1125         1         EDCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060063         1133         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         Combined Active Set Update and E-DCH Serving Cell Change with A.8.0         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Nor serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-de								
12/2005         30         RP-050695         1123         1         EDCH Cell Capability Enhancement         6.7.0         6.8.0           12/2005         30         RP-050849         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060064         1124         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with Radio Link Addition Request (Inter RNC Case)         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Correction to the on dema					<b>'</b>	READY TDD		
12/2005         30         RP-050849         1125         1         E-DCH HARQ RV Configuration         6.7.0         6.8.0           03/2006         31         RP-060064         1124         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with Radio Link Addition Request (Inter RNC Case)         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HSDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1145         Correction to the on demand mesurement					4			
03/2006         31         RP-060064         1124         1         E-DCH HARQ Combining Capability         6.8.0         6.9.0           03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with Radio Link Addition Request (Inter RNC Case)         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PUD Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HSDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060063         1140         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction of criticality for Unirectional DCH Indictor <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
03/2006         31         RP-060063         1130         1         Combined Active Set Update and E-DCH Serving Cell Change with Radio Link Addition Request (Inter RNC Case)         6.8.0         6.9.0           03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HDDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060066         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of E-D								
03/2006         31         RP-060064         1133         1         E-DCH Mac-D PDU Size List Alignment         6.8.0         6.9.0           03/2006         31         RP-060064         1134         2         Non serving HSDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060066         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006 <td>03/2006</td> <td></td> <td></td> <td></td> <td></td> <td>Combined Active Set Update and E-DCH Serving Cell Change with</td> <td></td> <td></td>	03/2006					Combined Active Set Update and E-DCH Serving Cell Change with		
03/2006         31         RP-060064         1134         2         Non serving HSDPA indicator for E-DCH         6.8.0         6.9.0           03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060066         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060063         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060069         1152         Introduction of E-DCH Reference Power Offset         6.8.0 </td <td>03/2006</td> <td>31</td> <td>RP-060064</td> <td>1133</td> <td>1</td> <td></td> <td>6.8.0</td> <td>6.9.0</td>	03/2006	31	RP-060064	1133	1		6.8.0	6.9.0
03/2006         31         RP-060064         1136         Clarification on serving EDCH cell change         6.8.0         6.9.0           03/2006         31         RP-060066         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060064         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060066         1147         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         Introduction of E-DCH Reference Power Offset         6.8.0								
03/2006         31         RP-060066         1139         Error Correction Radio Link Parameter Update         6.8.0         6.9.0           03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060064         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060066         1147         1         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060065         1154         Correction of the presence of the ce	03/2006				1			
03/2006         31         RP-060063         1140         1         CR cross-dependencies for HS cell change by RL ADDITION         6.8.0         6.9.0           03/2006         31         RP-060064         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Ad	03/2006				İ —			
03/2006         31         RP-060064         1142         Alignment of E-DCH RL Set ID         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1143         Compressed Mode Correction         6.8.0         6.9.0           03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060066         1147         1         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060055         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition	03/2006				1			
03/2006         31         RP-060063         1145         1         Correction to the on demand mesurement for the HS-SICH in the dedicated measurement procedure for TDD         6.8.0         6.9.0           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060066         1147         1         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0           03/2006         31         RP-060070         1127         1         Introduction of T.68Mcps TDD option         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0	03/2006		RP-060064	1142		Alignment of E-DCH RL Set ID		6.9.0
oddedicated measurement procedure for TDD         dedicated measurement procedure for TDD           03/2006         31         RP-060064         1146         Correction of criticality for Unirectional DCH Indictor         6.8.0         6.9.0           03/2006         31         RP-060066         1147         1         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060055         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0           03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0	03/2006							
03/2006         31         RP-060066         1147         1         HARQ Failure Indication due to MAC-e Reset in UE         6.8.0         6.9.0           03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0           03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0	03/2006	31	RP-060063	1145	1	dedicated measurement procedure for TDD	6.8.0	6.9.0
03/2006         31         RP-060069         1152         2         Introduction of E-DCH Reference Power Offset         6.8.0         6.9.0           03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0           03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0	03/2006							
03/2006         31         RP-060060         1154         Correction of the presence of the cell capacity class value IE         6.8.0         6.9.0           03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0           03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0	03/2006							
03/2006         31         RP-060065         1155         1         Adding HS-DSCH TDD Info in Radio Link Addition procedure         6.8.0         6.9.0         6.9.0         7.0.0         03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0         03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0         7.0.0					2			
03/2006         31         RP-060070         1127         1         Introduction of the PLCCH         6.9.0         7.0.0           03/2006         31         RP-060073         1128         1         Introduction of 7.68Mcps TDD option         6.9.0         7.0.0					<u>.                                    </u>			
03/2006 31 RP-060073 1128 1 Introduction of 7.68Mcps TDD option 6.9.0 7.0.0								
					1			
	03/2006	31 32			1 2	CR to 25.423[Rel-7] on correction for DL DPCH Power Information	6.9.0 7.0.0	7.0.0

06/2006	32	RP-060280	1162	2	CR cross-dependencies for E-DCH Reference Power Offset by RL	7.0.0	7.1.0
					ADDITION		
06/2006	32	RP-060280		1	Corrections to E-DCH Uplink Combination in RL SETUP and RL ADDITION	7.0.0	7.1.0
06/2006	32	RP-060281	1170	1	Correction of the common related information for E-HICH and E- RGCH	7.0.0	7.1.0
06/2006	32	RP-060281	1172		E-RGCH/E-HICH Power Offset value range	7.0.0	7.1.0
06/2006	32	RP-060279	1176		Corrections to Combined RL Additoin with HS-DSCH /E-DCH Serving change	7.0.0	7.1.0
06/2006	32	RP-060290	1177	2	Release 7 Timing Advance (3.84 Mpcs and 7.68 Mcps TDD)	7.0.0	7.1.0
06/2006	32	RP-060291	1178		Addition of HS-DSCH information in radio link addition procedure for 7.68 Mcps TDD	7.0.0	7.1.0
06/2006	32	RP-060280	1180	2	E-DCH and HS-DSCH same serving cell	7.0.0	7.1.0
06/2006	32	RP-060280		1	HS-DSCH Configured Indicator for Radio Link Addition	7.0.0	7.1.0
06/2006	32	RP-060281		1	E-RNTI allocation on serving change	7.0.0	7.1.0
06/2006	32	RP-060407		2	Introduction of TNL QoS IE for shared channels	7.0.0	7.1.0
06/2006	32	RP-060284	1189		RNL cause "E-DCH not supported" missing in the ASN.1	7.0.0	7.1.0
06/2006	32	RP-060431	1192	2	Power Offset for E-DCH control-only transmissions	7.0.0	7.1.0
06/2006	32	RP-060281		1	Abnormal condition for HS-DSCH Configured Indicator IE	7.0.0	7.1.0
09/2006	33	RP-060501	1203	1	Correction on the value range of E-DCH IEs	7.1.0	7.2.0
09/2006	33	RP-060503	1205	1	Presence of "E-DCH FDD Information Response" IE	7.1.0	7.2.0
09/2006	33	RP-060501	1207	1	E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages	7.1.0	7.2.0
09/2006	33	RP-060500	1209	1	DCH combined when EDCH operation	7.1.0	7.2.0
09/2006	33	RP-060503			Correction of maxNrOfMACdFlows for EDCH in ASN.1	7.1.0	7.2.0
09/2006	33	RP-060503			Use of the RL Specific E-DCH Information IE for E-DCH modification	7.1.0	7.2.0
09/2006	33	RP-060500	1215	1	Optional usage of the E-DCH Reference Power Offset IE	7.1.0	7.2.0
09/2006	33	RP-060504	1217	1	MAC-HS reset Indicator alignment for the Radio Link Addition Response	7.1.0	7.2.0
09/2006	33	RP-060511	1219	1	Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink	7.1.0	7.2.0
09/2006	33	RP-060503		1	E-DCH not optional in RNSAP message RL SETUP RESPONSE	7.1.0	7.2.0
09/2006	33	RP-060509		3	Extended WCDMA Cell Range	7.1.0	7.2.0
09/2006	33	RP-060514		1	Ignore Traffic Class if HS-DSCH or E-DCH MAC-d flow user is SRB (RRC)		7.2.0
09/2006	33	RP-060500	1229		Further Abnormal Conditions for E-DCH	7.1.0	7.2.0
09/2006	33	RP-060504		1	Correction for RL Reconfiguration	7.1.0	7.2.0
09/2006	33	RP-060504		1	Correction on the value range of E-DCH les	7.1.0	7.2.0
09/2006	33	RP-060502			Introduction of new indicator for non DCH operation	7.1.0	7.2.0
09/2006	33	RP-060479	1239		Correction to coding of PLCCH for 1.28Mcps TDD	7.1.0	7.2.0
12/2006	34	RP-060698		2	Enhancing RNSAP specification to support Mobile TV	7.2.0	7.3.0
12/2006	34	RP-060699	1243	2	Correction for Misalignment between Tabular and ASN.1 for "E- RGCH and E-HICH Channelisation Code" IE	7.2.0	7.3.0
12/2006	34	RP-060777	1245	3	Correction for Misalignment between Tabular and ASN.1 for "E- DCH Minimum Set E-TFCI " IE	7.2.0	7.3.0
12/2006	34	RP-060700	1247	1	Correction for the max reptition of RL Information Response IE in tabular	7.2.0	7.3.0
12/2006	34	RP-060700			Correction to an abnormal case in E-DCH RL ADDITION	7.2.0	7.3.0
12/2006	34	RP-060709	1256	2	Fast Reconfiguration	7.2.0	7.3.0
12/2006	34	RP-060705		1	Correction of Round Trip Time for Extended Cell Range	7.2.0	7.3.0
12/2006	34	RP-060707	1259	1	RL Setup Procedure Combined with HSPA Serving Cell Change	7.2.0	7.3.0
03/2007	35	RP-070057	1258	2	Introduction of Continuous Packet Connectivity in RNSAP	7.3.0	7.4.0
03/2007	35	RP-070057		1	HS-PDSCH code change for CPC mode	7.3.0	7.4.0
03/2007	35	RP-070053	1263	1	Abnormal conditions for IP Transport Option and Diversity Control field	7.3.0	7.4.0
03/2007	35	RP-070056	1265	1	Correction of the Maximum number of logical channel ID	7.3.0	7.4.0
03/2007	35	RP-070061	1267	1	Introduction of MIMO in RNSAP	7.3.0	7.4.0
03/2007	35	RP-070063	1268	2	Presence of Guaranteed Bit Rate	7.3.0	7.4.0
03/2007	35	RP-070129		2	Introduction of 1.28 Mcps TDD Enhanced Uplink	7.3.0	7.4.0
03/2007	35	RP-070067		1	Introduction of Downlink Higher Order Modulation in RNSAP	7.3.0	7.4.0
03/2007	35	RP-070053			Correction of the procedure code ID	7.3.0	7.4.0
06/2007	36	RP-070332		3	Support of higher bitrates and Flexible RLC PDU size on HS-DSCH		7.5.0
06/2007	36	RP-070331		3	Introduction of Uplink Higher Order Modulation in RNSAP	7.4.0	7.5.0
06/2007	36	RP-070474		5	Introduction of Extended RNC-ID	7.4.0	7.5.0
06/2007	36	RP-070328		5	Introduction of Enhanced Cell_FACH state feature	7.4.0	7.5.0
06/2007	36	RP-070338		1	Support of F-DPCH Enhancement	7.4.0	7.5.0
06/2007	36	RP-070322	1277		Introducing a new value E-DCH TTI2ms not supported in the Cause IE	7.4.0	7.5.0
06/2007	36	RP-070327	1282	1	Added a missing value MIMO not supported in the Cause IE	7.4.0	7.5.0
06/2007	36	RP-070320			Correction of wrong description for E-DCH HARQ process	7.4.0	7.5.0
06/2007	36	RP-070339	1288	1	allocation for 2ms TT Abnormal condition for Unidirection DCH Indicator	7.4.0	7.5.0

06/2007	36	RP-070326			Alignment of UE DTX long preamble IE in RNSAP/NBAP with RRC		7.5.0
06/2007	36	RP-070327			Introduction of missing cause values for MIMO	7.4.0	7.5.0
06/2007	36	RP-070326		1	Introduction of missing cause values for CPC	7.4.0	7.5.0
06/2007	36	RP-070394			Correction to definition of Power Resource Related Information (TDD only)	7.4.0	7.5.0
06/2007	36	RP-070339	1294		Inconsistencies between tabular description and ASN.1 definition with regard to the use of the TNL QoS, Traffic Class and BLER IEs	7.4.0	7.5.0
06/2007	36	RP-070337	1295	2	Introduction of GANSS (Galileo and Additional Navigation Systems) in RNSAP	7.4.0	7.5.0
06/2007	36	RP-070340	1296	1	Max UE DTX Cycle Signaling Support for CPC operation	7.4.0	7.5.0
6/2007	36	RP-070324			Some minor corrections for 1.28 Mcps TDD E-DCH	7.4.0	7.5.0
6/2007	36	RP-070324	1298		Modification on the non-scheduled transmission for 1.28 Mcps TDD E-DCH	7.4.0	7.5.0
)9/2007	37	RP-070566	1300	1	Correction of Power offset for E-HICH, E-AGCH, E-RGCH and HS- SCCH when F-DPCH is configured	7.5.0	7.6.0
09/2007	37	RP-070565	1302	1	PO2 for F-DPCH	7.5.0	7.6.0
09/2007	37	RP-070571			Extension of the ranges of the MAC-hs / MAC-es Guaranteed Bit Rate IEs	7.5.0	7.6.0
09/2007	37	RP-070572	1304	1	Extension of the range of the "Reference E-TFCI Power Offset" for UL 16QAM	7.5.0	7.6.0
09/2007	37	RP-070572	1305	1	Extension of the ranges of the "Maximum Number of Bits per MAC- e PDU for Non-scheduled transmission" and "E-DCH Maximum Bitrate" for UL 16QAM	7.5.0	7.6.0
09/2007	37	RP-070630	1306	2	HARQ Memory Partitioning for MIMO	7.5.0	7.6.0
09/2007	37	RP-070579		1	Cause value "F-DPCH Slot Format operation not supported"	7.5.0	7.6.0
09/2007	37	RP-070571		1	64QAM DL support Indicator	7.5.0	7.6.0
09/2007	37	RP-070575		1	Max UE DTX Cycle Signaling Support for CPC operation	7.5.0	7.6.0
09/2007	37	RP-070650	-	2	Introduction of multi-frequency for 1.28Mcps TDD in 25.423	7.5.0	7.6.0
09/2007	37	RP-070571		1	N/M ratio for MIMO decided by the Node B	7.5.0	7.6.0
09/2007	37	RP-070573			Corrections related to changes for Improved L2 and Enhanced FACH	7.5.0	7.6.0
09/2007	37	RP-070579	1316	1	Clean up of RNSAP Rel 7	7.5.0	7.6.0
09/2007	37	RP-070579		3	Broadcasted Multiple PLMN list in RNSAP	7.5.0	7.6.0
9/2007	37	RP-070579		1	Corrections for F-DPCH Slot Format Operation	7.5.0	7.6.0
09/2007	37	RP-070575			Corrections/Small Improvements for CPC	7.5.0	7.6.0
09/2007	37	RP-070581		2	Enhancements to Macro Diversity & Cell Interference Control	7.5.0	7.6.0
12/2007	38	RP-070841			ASN1-Tabular alignment for GANSS feature in TS25.423	7.6.0	7.7.0
12/2007	38	RP-070840		1	Support modification of UE Capabilities Information for a HS-DSCH RL		7.7.0
12/2007	38	RP-070838	1328		Correction of CPC parameters	7.6.0	7.7.0
12/2007	38	RP-070911	1329		E-TFCI BetaEC Boost and E-TFCI BetaED Switch IEs updates	7.6.0	7.7.0
12/2007	38	RP-071017	1330	2	HARQ Memory Partitioning Information Extension For MIMO IE criticality	7.6.0	7.7.0
12/2007	38	RP-070938	1331		Scheduled Grant setting in DTX Cycle 2 during CPC operation	7.6.0	7.7.0
12/2007	38	RP-070840	1332	2	Further Introduction of Enhanced Cell FACH related IEs	7.6.0	7.7.0
12/2007	38	RP-070840	1333	2	Further corrections on Enhanced Cell_FACH	7.6.0	7.7.0
12/2007	38	RP-070844	1335	3	UE Involved Relocation with Timing Maintaining HHO	7.6.0	7.7.0
12/2007	38	RP-070839	1336	2	64 QAM Activation	7.6.0	7.7.0
12/2007	38	RP-070838			Correction for PRXdes_base in LCR TDD EUL	7.6.0	7.7.0
12/2007	38	RP-070843	1338		Correction for E-DCH Combing in RL Reconfiguration	7.6.0	7.7.0
12/2007	38	RP-071041	1339	1	Abnormal condition for UL DPCCH slot format 4	7.6.0	7.7.0
12/2007	38	RP-070843			Correction of the location of Delta T2TP parameter	7.6.0	7.7.0
03/2008	39	RP-080072		1	Correction on MAC-d PDU Size for E-DCH	7.7.0	7.8.0
03/2008	39	RP-080073		1	Correction on Abnormal Condition for identical cell on HSDPA/E- DCH Serving Cell	7.7.0	7.8.0
03/2008	39	RP-080073		1	Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify	7.7.0	7.8.0
03/2008	39	RP-080072			Abnormal Condition on DL L2 Improvement	7.7.0	7.8.0
03/2008	39	RP-080072			E-DCH RL Set ID IE handling	7.7.0	7.8.0
)3/2008	39	RP-080074	1346		Transport bearer replacement during HS-DSCH Modification	7.7.0	7.8.0
)3/2008	39	RP-080073			UL DPCCH Slot Format 5 undefined	7.7.0	7.8.0
03/2008	39	RP-080073	1349	3	Addition of IE "Continuous Packet Connectivity HS-SCCH less Deactive Indicator"	7.7.0	7.8.0
03/2008	39	RP-080076	1350		Clarification of E-DCH non-scheduled Grant Information for 1.28Mcps TDD	7.7.0	7.8.0
03/2008	39	RP-080076	1351	1	Introduction of an additional UE Category for 1.28Mcps TDD E- DCH	7.7.0	7.8.0
03/2008	39	RP-080073	1352		Correction of mistake in CR1243 and other similar wording mistakes	7.7.0	7.8.0
	39	RP-080151	1357	2	Correction the condition of UL DPDCH Indicator for E-DCH Operation	7.7.0	7.8.0
03/2008					Operation		
03/2008	40	RP-080295	1365	1	Extended power control gap for E-PUCH in LCR TDD	7.8.0	7.9.0

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06/2008	40	RP-080404	1359	2	Mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL	7.8.0	7.9.0
06/2008	40	RP-080298	1369		Power Control Gap IE handling	7.8.0	7.9.0
06/2008	40	RP-080299	1370	2	RL Parameter Update for E-DCH FDD DL Control Channel Information	7.8.0	7.9.0
06/2008	40	RP-080298	1372	1	Clarification on Transport Bearer Not Requested Indicator	7.8.0	7.9.0
06/2008	40	RP-080298	1375		ASN.1 and tabular misalignment	7.8.0	7.9.0
06/2008	40	RP-080294	1382	1	Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration	7.8.0	7.9.0
06/2008	40	RP-080300	1384	1	GANSS Corrections	7.8.0	7.9.0

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