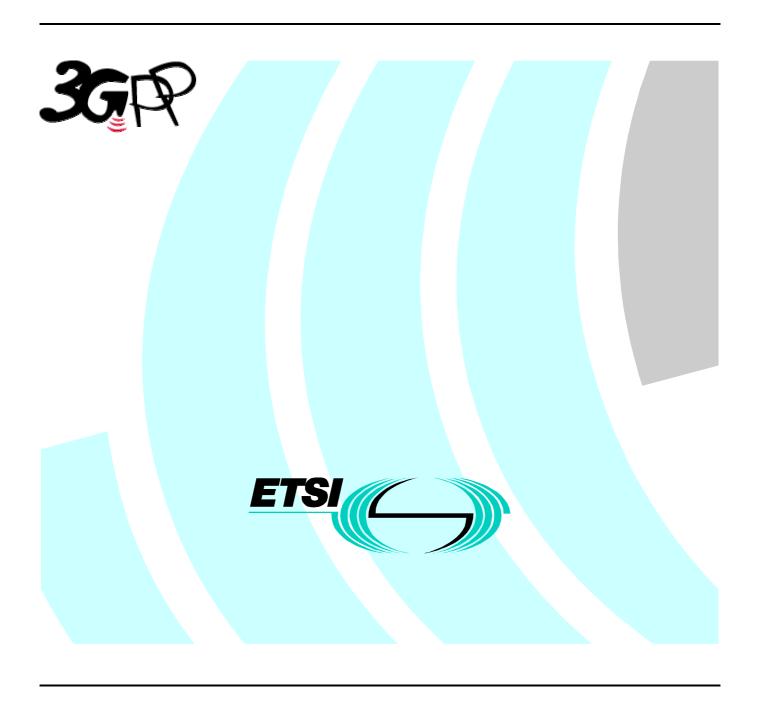
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Foreword

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1 Scope

The present document specifies the radio network layer signalling procedures between RNCs in UTRAN.

References 2

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

• For a non-specific reference, the latest version applies.		
[1]	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]	(void)	
[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)	

- [9]
- [10] UMTS 25.214: "Physical Layer Procedures (FDD)".
- [11] 3GPP TS 25.215: "Physical Layer – Measurements (FDD)".
- 3GPP TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels [12] (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"
- 3GPP TS 25.331: "RRC Protocol Specification". [16]
- [17] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".
- X.680 (12/94): "Information technology Abstract Syntax Notation One (ASN.1): Specification of [18] basic notation".
- [19] ITU-T Recommendation X.681 (12/97): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- ITU-T Recommendation X.691 (12/97): "Information technology ASN.1 encoding rules -[20] 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 23.003: "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)".

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 successfully completed with the receipt of the response.

Unsuccessful

- A signalling message explicitly indicates that the EP failed.
- On time supervision expiry (i.e. absence of expected response). Whether or not any Class 1 procedure will have a timer on RNSAP is FFS. To de sorted out when discussing the details of the error cases.

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 any more after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed.

UE Context: The UE Context contains the necessary information for the DRNC for communication with a specific UE. The UE Context is created in conjunction with 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. The UE Context is deleted by the Radio Link Deletion procedure or by the Common Transport Channel Resources Release procedure when no more Radio Links nor any common transport channels are established towards the concerning 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 oriented mode of the signalling bearer, unless specified otherwise in the procedure text.

3.2 Symbols

Void.

3.3 Abbreviations

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

ASN.1 Abstract Syntax Notation One

BLER Block Error Rate

CCCH Common Control Channel

CCPCH Common Control Physical Channel CCTrCH Coded Composite Transport Channel

CFN Connection Frame Number

CM Compressed Mode CN Core Network

CPICH Common Pilot Channel
CRNC Controlling RNC
DCH Dedicated Channel

DL Downlink

DPCCH Dedicated Physical Control Channel

DPCH Dedicated Physical Channel

DRNC Drift RNC DRNS Drift RNS

DRX Discontinuous Reception
DSCH Downlink Shared Channel
EP Elementary Procedure
FACH Forward Access Channel
FDD Frequency Division Duplex

FP Frame Protocol
IE Information Element
MAC Medium Access Control

PCPCH Physical Common Packet Channel

PDU Protocol Data Unit

PRACH Physical Random Access Channel

RAB Radio Access Bearer RACH Random Access Channel

RL Radio Link
RLC Radio Link Control

RLS Radio Link Contro

RNS Radio Network Subsystem

RNSAP Radio Network Subsystem Application Part
RNTI Radio Network Temporary Identifier

RRC Radio Resource Control
RSCP Received Signal Code Power
SCH Synchronisation Channel
SDU Signalling Data Unit
SFN System Frame Number

SRNC Serving RNC SRNS Serving RNS

SSDT Site Selection Diversity Transmit

TDD Time Division Duplex

TFCI Transport Format Combination Indicator
TFCS Transport Format Combination Set

TFS Transport Format Set
TPC Transmit Power Control

UARFCN UTRA Absolute Radio Frequency Channel Number

UE User Equipment

UL Uplink

URA UTRAN Registration Area USCH Uplink Shared Channel

UTRAN UMTS 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 CRNC exactly and completely. The SRNC functional behaviour is left unspecified. The Physical Channel Reconfiguration procedure is an exception from this principle.

4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism where 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

Message

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. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD.

[FDD - ...] This tagging indicates that the enclosed text following the "[FDD - " applies only to FDD.

Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.

[TDD - ...] This tagging indicates that the enclosed text following the "[TDD - " applies only to TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the 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.

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)" or "SSDT Active in the UE".

5 RNSAP Services

The RNSAP offers the following 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 DCH Procedures;
- 3. RNSAP Common Transport Channel Procedures;
- 4. RNSAP Global Procedures.

The Basic Procedures module contains procedures used to handle the mobility within UTRAN.

The DCH Procedures module contains procedures that are used to handle DCHs between two RNSs. If procedures from this module are not used in a specific Iur, then the usage of 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 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.

5.2 Parallel Transactions

Unless explicitly indicated in the procedure specification, at any instance in time one protocol peer shall have initiated maximum one ongoing RNSAP DCH 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 has 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;
- 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;
- Paging. This function allows the SRNC to page a UE in a URA 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 (excluding DSCH resources for FDD);
- Relocation Execution. This function allows the SRNC 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.

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

Table 1: Mapping between functions and RNSAP elementary procedures

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
Physical Channel Pocentiauration	Cancellation Physical Channel Reconfiguration
Physical Channel Reconfiguration Radio Link Supervision	Physical Channel Reconfiguration a) Radio Link Failure b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup b) Radio Link Addition c) Compressed Mode Command d) Unsynchronised Radio Link Reconfiguration e) Synchronised Radio Link Reconfiguration Preparation f) Synchronised Radio Link Reconfiguration Commit g) Synchronised Radio Link Reconfiguration Cancellation
Measurements on Dedicated Resources	a) Measurement Initiation b) Measurement Reporting c) Measurement Termination d) Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
CCCH Signalling Transfer	a) Uplink Signalling Transfer b) Downlink Signalling Transfer
Paging	Paging
Common Transport Channel Resources Management	a) Common Transport Channel Resources Initiation b) Common Transport Channel Resources Release
Relocation Execution	Relocation Commit
Reporting of General Error Situations	Error Indication

8 RNSAP Procedures

8.1 Elementary Procedures

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

Table 2: Class 1

Elementary	Initiating Message	Successful Outcome	Unsuccessful Outc	ome
Procedure		Response message	Response message	Timer
Radio Link Setup	RADIO LINK SETUP REQUEST	RADIO LINK SETUP RESPONSE	RADIO LINK SETUP FAILURE	
Radio Link Addition	RADIO LINK ADDITION REQUEST	RADIO LINK ADDITION RESPONSE	RADIO LINK ADDITION FAILURE	
Radio Link Deletion	RADIO LINK DELETION REQUEST	RADIO LINK DELETION RESPONSE		
Synchronised Radio Link Reconfiguration Preparation	RADIO LINK RECONFIGURATION PREPARE	RADIO LINK RECONFIGURATION READY	RADIO LINK RECONFIGURATION FAILURE	
Unsynchronised Radio Link Reconfiguration	RADIO LINK RECONFIGURATION REQUEST	RADIO LINK RECONFIGURATION RESPONSE	RADIO LINK RECONFIGURATION FAILURE	
Physical Channel Reconfiguration	PHYSICAL CHANNEL RECONFIGURATION REQUEST	PHYSICAL CHANNEL RECONFIGURATION COMMAND	PHYSICAL CHANNEL RECONFIGURATION FAILURE	
Measurement Initiation	DEDICATED MEASUREMENT INITIATION REQUEST	DEDICATED MEASUREMENT INITIATION RESPONSE	DEDICATED MEASUREMENT INITIATION FAILURE	
Compressed Mode Preparation [FDD]	COMPRESSED MODE PREPARE	COMPRESSED MODE READY	COMPRESSED MODE FAILURE	
Common Transport Channel Resources Initiation	COMMON TRANSPORT CHANNEL RESOURCES REQUEST	COMMON TRANSPORT CHANNEL RESOURCES RESPONSE	COMMON TRANSPORT CHANNEL RESOURCES FAILURE	

The need for Timers will be defined on a per procedure basis. The content of this column is thus FFS.

Table 3: Class 2

Elementary Procedure	Initiating Message
Uplink Signalling Transfer	UPLINK SIGNALLING TRANSFER
	INDICATION
Downlink Signalling Transfer	DOWNLINK SIGNALLING
	TRANSFER REQUEST
SRNS Relocation Commit	SRNS 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
Measurement Reporting	DEDICATED MEASUREMENT
	REPORT
Measurement Termination	DEDICATED MEASUREMENT
	TERMINATION REQUEST
Measurement Failure	DEDICATED MEASUREMENT
	FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Commit [FDD]	COMPRESSED MODE COMMIT
Compressed Mode Cancellation	COMPRESSED MODE CANCEL
[FDD]	
Common Transport Channel	COMMON TRANSPORT CHANNEL
Resources Release	RESOURCES RELEASE REQUEST
Error Indication	ERROR INDICATION

8.2 Basic Mobility Procedures

8.2.1 Uplink SignallingTransfer

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

When the DRNC receives an Uu message on the CCCH where 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.

The DRNC shall include in the message the URA Identity of the URA where the Uu message was received, an indication on whether or not the accessed cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface. When DRNC allocates a new C-RNTI to the UE, it releases the old one.

If the message received from the UE was the first message from that UE in the DRNC, the DRNC shall 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 where the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message.

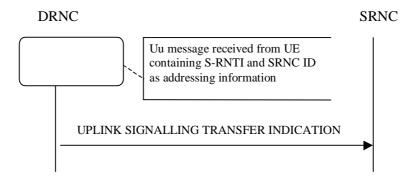


Figure 1: Uplink Signalling Transfer procedure, Successful Operation

8.2.1.3 Abnormal Conditions

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8.2.2 Downlink SignallingTransfer

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.

8.2.2.2 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.

At the reception 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", the D-RNTI and thus the UE Context and any DRNS resource allocated to the UE Context shall be released at the reception of the UPLINK SIGNALLING TRANSFER INDICATION message.



Figure 2: Downlink Signalling Transfer procedure, Successful Operation

8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE is not camping in the cell identified by the *C-Id* IE in the UPLINK SIGNALLING TRANSFER INDICATION message, the message shall be ignored.

If the D-RNTI is allocated to one UE context whose status does not allow the sending of the L3 information from the DRNC, then the UPLINK SIGNALLING TRANSFER INDICATION message shall be ignored.

8.2.3 Relocation Commit

8.2.3.1 General

The Relocation Commit procedure is used by target 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

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.

At reception 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.



Figure 3: Relocation Commit procedure, Successful Operation

8.2.3.3 Abnormal Conditions

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.

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 accordingly.

8.2.4.3 Abnormal Conditions

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8.3 DCH 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

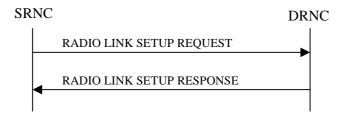


Figure 5: Radio Link Setup procedure: Successful Operation

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 RRC connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request setup of the radio link(s).

The message includes the S-RNTI associated to the UE, and, if the UE context is already present in the DRNC, the corresponding D-RNTI.

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator* IE is set to "first RLS", the DRNS shall use a TPC pattern of n*"01" + "1" in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with CFNmod4=0. For all other RLs, the DRNS shall use a TPC pattern of all "1"'s in the DL until UL synchronisation is achieved on the Uu.]

[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 on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then 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 an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request before providing a response to the SRNC.

[FDD - If the *Initial DL TX Power* IE and *Uplink SIR Target* IE are present 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 constrains 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.]

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

[TDD - If the *Primary CCPCH RSCP* IE and/or the *DL Timeslot ISCP* IE are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

[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] section 5.2.1 for the inner loop DL power control.]

[FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop 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) with DPC_MODE=0 and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved for the concerning RL. No innerloop 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).

If the RADIO LINK SETUP REQUEST message includes a *DCH Info* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCH Info* IE as a set of co-ordinated DCHs.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

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

The *Allocation/Retention Priority* IE defines the priority level that should be used by the DRNS to prioritise the allocation and the retention of the resources used by the DCH. The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise the discard/delay of the data frames of the DCH and DSCH (if any).

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the new 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 new Time of Arrival Window Start Point 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 new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE, the DRNS shall activate SSDT, if supported, using the SSDT Cell Identity IE and SSDT Cell Identity Length IE.]

[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 when those are activated.]

[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 immediately activate the indicated Transmisson Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

[TDD – The DRNS shall use the *RB Identity* IE list inside the USCH information group to map each *RB Identity* IE to the corresponding USCH.]

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates 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 or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

[TDD –. If the DSCH Information is included in the RADIO LINK SETUP REQUEST message, the DRNC shall send a valid set of *Scheduling Priority* IE and *MAC-c/sh SDU lengths* IE parameters to the SRNC in the message RADIO LINK SETUP RESPONSE message].

[FDD - If the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not present in the RADIO LINK SETUP REQUEST message, then DRNC shall include the determined initial Uplink SIR Target in the RADIO LINK SETUP RESPONSE message.]

[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 – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the UE context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the Diversity Indication that the RL is combined with another RL. In this case the Reference *RL ID* IE shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH and DSCH of the RL in the RADIO LINK SETUP RESPONSE message.]

[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 [TDD – and USCH] of the RL.]

In case of a set of coordinated DCHs requiring a new transport bearer on Iur the *Binding Identifier* IE and the *Transport Layer Address* IE shall be included only for one of the DCH in the set of co-ordinated DCHs.

[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.]

The DRNS shall also provide the SRNC with the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD-Primary Scrambling Code], the [TDD-Cell Parameter ID, the Sync Case, the SCH Time Slot information, the Block STTD Indicator] of the neighbouring cells to the cell(s) where the radio link(s) are added. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value] and Frame Offset of the neighbouring cell.

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC and CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator* IE and Tx diversity capability (i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE) in *Per FDD Cell Information* IE].

If there was no UE context for this UE in the DRNS before the RADIO LINK SETUP REQUEST message was received the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the *D-RNTI* IE in the RADIO LINK SETUP RESPONSE message.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info IE* to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [3].

[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE].

[FDD- If the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Information Response* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

8.3.1.3 Unsuccessful Operation

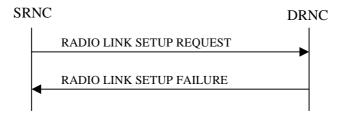


Figure 6: Radio Link Setup procedure: Unsuccessful Operation

In unsuccessful case (i.e. one or more RLs can not be setup) the RADIO LINK SETUP FAILURE message shall be sent to the SRNC, indicating the reason for failure. 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 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 regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK SETUP FAILURE message with the cause value "Number of DL Codes Not Supported".]

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;
- Unknown C-ID;
- [FDD Combining Resources not available];
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Invalid CM Settings;
- Number of DL codes not supported;
- DCH not Supported;

- DSCH not Supported;
- [TDD USCH not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported.

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

Transaction not Allowed

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 the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

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 or more additional RLs towards a UE when there is already at least one RL established to the concerning 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.

[FDD – The Radio Link Addition procedure serves to establish one or more new Radio Links which do not contain the DSCH. If the DSCH shall be moved into a new Radio Link, the Radio Link reconfiguration procedure shall be applied.]

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

8.3.2.2 Successful Operation

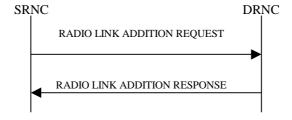


Figure 7: Radio Link Addition procedure: Successful Operation

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

Upon reception, 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 *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), then 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.

[FDD - If the *Primary CCPCH Ec/No* IE measured by the UE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power. If the *Primary CCPCH Ec/No* IE is not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[TDD - If the *Primary CCPCH RSCP* IE and/or the *DL Timeslot ISCP* IE are included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use them in the calculation of the Initial DL TX Power. If the *Primary CCPCH RSCP* IE and *DL Timeslot ISCP* IE are not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop 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) with DPC_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop 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 - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT shall, if supported, be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

The DRNS shall activate any feedback mode diversity according to the received settings.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to immediately activate all ongoing Transmission Gap Pattern Sequence(s) also in the new RL. For each sequence the *TGCFN* refers to latest passed CFN with that value. If *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the on going CM pattern in the new RLs, but the on going pattern in the existing RL are maintained.]

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

[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 – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the UE context.]

[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 the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

In the case of combining an RL with existing RL(s) the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the co-ordinated DCHs.

[TDD - If the radio link to be added includes a DSCH, the DRNC shall send a set of valid *Scheduling Priority* IE and *MAC-c/sh SDULength* IE parameters to the SRNC in the message RADIO LINK ADDITION RESPONSE message.]

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD-Primary CPICH Power IE]/[TDD - PCCPCH Power IE, DPCH Constant Value IE], Frame Offset IE, [FDD – Tx Diversity Indicator IE, and Tx diversity capability, i.e. STTD Support Indicator IE, Closed Loop Model Support Indicator IE, and Closed Loop Mode2 Support Indicator IE] of the neighbouring cell.

The DRNC shall also provide the configured uplink 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.

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 DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

[FDD - If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the added RLs in the RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].

[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control* IE was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE.].

[FDD – When *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

8.3.2.3 Unsuccessful Operation

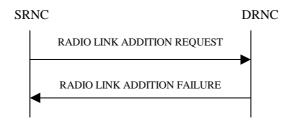


Figure 8: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall send a RADIO LINK ADDITION FAILURE as response.

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 RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE and the DRNS cannot provide the requested CM measurements, or if the *Transmission Gap Pattern Sequence Status* IE group repetitions in the *Active Pattern Sequence Information* IE do not address exactly all ongoing compressed mode patterns the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST is used to terminate the on going compressed mode measurement in the new RLs (as specified above), but at least one new RL is setup in one cell that has the same UARCFN of at least one cell with an already existing RL, the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

If the DRNS is not able to establish the requested RLs due to that the DRNS has received a RADIO LINK RECONFIGURATION COMMIT and the indicated reconfiguration CFN has not yet elapsed, the DRNS shall indicate this with the cause value "Reconfiguration CFN not elapsed" in the RADIO LINK ADDITION FAILURE message.

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK ADDITION FAILURE message with the cause value "Number of DL Codes Not Supported".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Combining Resources not available;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Invalid CM Settings;
- CM not Supported;
- Reconfiguration CFN not elapsed;
- Number of DL codes not supported.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

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

8.3.2.4 Abnormal Conditions

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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

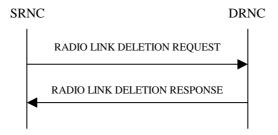


Figure 9: Radio Link Deletion procedure, Successful Operation

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 in the message and release all associated resources and 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 then the DRNC shall also release the UE context, unless the UE is using common resources in the DRNS.

[FDD – After deletion of the RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC 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

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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 all Radio Links 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

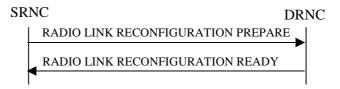


Figure 10: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

Upon reception, 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 before providing a response to the SRNC.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allocation/Retention Priority* IE for a DCH to be modified, the DRNS should use this information when reserving resources for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message 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 RADIO LINK RECONFIGURATION PREPARE message 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 RADIO LINK RECONFIGURATION PREPARE message 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 RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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 RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane forthe DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to 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.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), 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 RADIO LINK RECONFIGURATION PREPARE message includes a DCHs to *Add* IE with 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 it can include all of them in the new configuration.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the 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 the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code 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 as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it 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 - 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 - 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *Diversity Mode* IE, the DRNS shall apply diversity according to the given value.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the DRNS shall apply the new Uplink DPCCH Structure to the new configuration.]

FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message 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] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message 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.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of *Midamble shift and Burst Type* IE, *Time Slot* IE, *TFCI presence* IE or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code* IE was modified.]

[TDD - UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added, the DRNC shall include this CCTrCH in the new configuration.]

[TDD – If the DRNC has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the SSDT Indication IE set to "SSDT Active in the UE", the DRNS shall activate SSDT, if supported, using the SSDT Cell Identity IE and SSDT Cell Identity Length IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the SSDT Indication IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

If the requested modifications are allowed by the DRNS, and the DRNS 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 exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION READY message.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH Information Response* IE group shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[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.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE and 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 DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* to the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

DSCH Addition/Modification/Deletion:

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, 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.

To add or modify each DSCH, 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*.

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.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE of the DSCHs being added or modified.

USCH Addition/Modification/Deletion [TDD]

The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message. 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.

To add or modify each USCH, 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*.

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.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE of the USCHs being added or modified.

8.3.4.3 Unsuccessful Operation

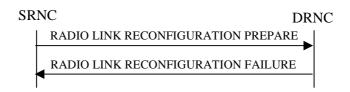


Figure 11: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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 regard the Synchronised Radio Link Reconfiguration procedure as having failed.

- If the requested Synchronised Radio Link Reconfiguration 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.

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 regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

In which cases to include only the *Cause* IE on message level and in which cases the *Cause* IE also shall be included for a specific RL is FFS.

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Number of DL Codes Not Supported".]

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;
- Invalid CM Settings;
- Number of DL codes not supported;
- [TDD- DCH not Supported];
- DSCH not Supported;
- [TDD USCH not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported.

Protocol Causes:

Transaction not Allowed.

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 regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

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 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 RL Reconfiguration procedure at the CFN requested by the SRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC. [FDD – The CFN shall be ignored by DRNS if only Transmission Gap Pattern Sequence Information was included in the RL Reconfiguration.] When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1

[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 CM Configuration Change CFN. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The *CM Configuration Change CFN* in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

8.3.5.3 Abnormal Conditions

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 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

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 receiving the RADIO LINK RECONFIGURATION CANCEL message from the SRNC. 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 reception, 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 before providing a response to the SRNC.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Allocation/Retention Priority* IE for a DCH to be modified, the DRNS should use this new value when reserving resources for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on 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 RADIO LINK RECONFIGURATION REQUEST message includes on 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 RADIO LINK RECONFIGURATION REQUEST message includes on 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 RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE with 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 RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a DCH which belongs to 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a DCH which belongs to 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.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), 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 RADIO LINK RECONFIGURATION REQUEST message includes a DCHs to *Add* IE with 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 it can all of them in the new configuration.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used 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 radio interface in congestion situations within the DRNS once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

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[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE and the *Reference to System Information blocks IE* to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS* IE for the UL, the DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message 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] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message 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.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes UL/DL CCTrCH to be modified the DRNC shall apply the included *TFCS* IE as the new value.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

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

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the IEs *Maximum Uplink SIR* and *Minimum Uplink SIR* for each Radio Link in the RADIO LINK RECONFIGURATION RESPONSE message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH Information Response* IE group shall be included only for one of the DCH in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[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.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and 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 DRNS shall include the *DL Code Information* IE group in the RADIO LINK RECONFIGURATION RESPONSE message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]

8.3.7.3 Unsuccessful Operation

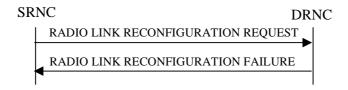


Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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 regard the Unsynchronised Radio Link Reconfiguration procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the DRNS cannot allocate the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s) the 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;
- Invalid CM Setting;
- CM not Supported.

Protocol Causes:

- Transaction not Allowed.

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 regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC.

8.3.8 Physical Channel Reconfiguration

8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNC to request to SRNC the reconfiguration of one of its physical channels.

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

The Physical Channel Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing.

8.3.8.2 Successful Operation

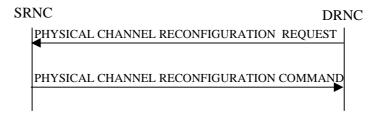


Figure 16: Physical Channel Reconfiguration procedure, Successful Operation

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 message contains the new value of the physical channel parameter(s) that shall be reconfigured and in which radio link.

Upon reception 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

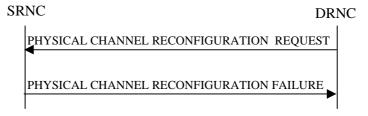


Figure 17: Physical Channel Reconfiguration procedure, Unsuccessful Operation

If the SRNC can not accept the reconfiguration request it shall send the PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC, including the cause for the failure.

Typical cause values are:

Radio Network Layer Causes:

- Reconfiguration not Allowed.

8.3.8.4 Abnormal Conditions

If the DRNC receives any of the RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST messages while waiting for the PHYSICAL CHANNEL RECONFIGURATION COMMAND message, this shall be regarded as a Physical Channel Reconfiguration failure. 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, it shall assume that receival 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. No separate response message for the Physical Channel Reconfiguration procedure shall be returned by the SRNC in this situation.

8.3.9 Radio Link Failure

8.3.9.1 General

This procedure is started by the DRNS when one or more Radio Links or Radio Link Sets are no longer available.

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

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

8.3.9.2 Successful Operation

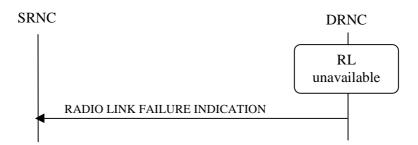


Figure 18: RL Failure procedure, Successful Operation

When DRNC detects that a one or more Radio Links or Radio Link Sets are no longer available, it shall send the RL FAILURE INDICATION message to the SRNC. The message indicates the failed Radio Links or Radio Link Sets with the most appropriate cause values defined in the *Cause* IE. If the failure concerns one or more individual Radio Links the DRNS shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the DRNS shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

When the RL Failure procedure is used to notify loss of UL synchronisation, the message shall be sent when indicated by the UL sync detection algorithm defined in ref. [10] and [22], and with the cause value 'Synchronisation Failure'.

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links or Radio Link Sets 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 the UE context itself. When applicable, the allocation retention priorities associated to 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.

Miscellaneous Causes:

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

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.

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

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

8.3.10.2 Successful Operation



Figure 19: RL Restoration procedure, Successful Operation

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when indicated by the UL sync detection algorithm defined in ref. [10] and [22]. [FDD – 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 synchronisation concerns one or more individual Radio Links the DRNC shall indicate the affected Radio Link(s) using the *RL Information* IE group.] [FDD - If the re-established synchronisation concerns one or more Radio Link Sets the DRNC shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

8.3.10.3 Abnormal Conditions

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8.3.11 Measurement Initiation

8.3.11.1 General

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

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

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

8.3.11.2 Successful Operation

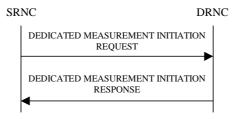


Figure 20: Measurement Initiation procedure, Successful Operation

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

Upon reception, the DRNC 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.

If the *Dedicated Measurement Object Type* IE is set to "RL", measurement results shall be reported for all of the indicated Radio Links.

[FDD - If the *Dedicated Measurement Object Type* IE is set to "RLS", measurement results shall be reported for all of the indicated Radio Link Sets.]

If the *Dedicated Measurement Object Type* IE is set to "ALL RL", measurement results shall be reported for all current and future Radio Links within the UE Context.

[FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RLS", measurement results shall be reported for all the existing and future Radio Link Sets within the UE Context.]

Report characteristics

The Report Characteristics IE indicates how the reporting of the measurement shall be performed.

If the Report Characteristics IE is set to 'On-Demand', the DRNS shall report the measurement result immediately.

If the *Report Characteristics* IE is set to 'Periodic', the DRNS shall periodically initiate a Measurement Report procedure for this measurement, with the requested report periodicity.

If the *Report Characteristics* IE is set to 'Event A', the DRNS shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, 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 a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event D', the DRNS shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time.

If the *Report Characteristics* IE is set to 'Event E', the DRNS shall initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). The DRNS shall also initiate a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the DRNS shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, 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 a Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time'

(Report A). The DRNS shall also initiate a Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time' (Report B). If the *Report Periodicity* IE is provided, the DRNS shall initiate Measurement Reporting procedures periodically, with the requested frequency, between Report A and Report B. If 'Measurement Threshold 2' is not present, the DRNS shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the DRNC shall use the value zero as hysteresis times for both Report A and Report B.

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 a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.

Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

 F_n is the updated filtered measurement result

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

 M_n is the latest received measurement result from physical layer measurements

 $a = 1/2^{(k/2)}$, 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_I when the first measurement result from the physical layer measurement is received.

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 measurement request.

Only in the case when the *Report Characteristics* IE is set to "On-Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. In this case also the *Dedicated Measurement Object* IE shall be included if it was included in the request message.

8.3.11.3 Unsuccessful Operation

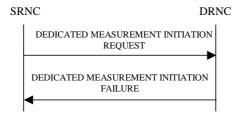


Figure 21: Measurement Initiation procedure, Unsuccessful Operation

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 Object Type* IE in the DEDICATED MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Dedicated Measurement Initiation procedure as failed.

If the requested measurement can not be initiated, the DRNC shall send a DEDICATED MEASUREMENT INITIATION FAILURE message. The message shall include the same Measurement Id that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

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

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8.3.12 Measurements Reporting

8.3.12.1 General

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

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

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

8.3.12.2 Successful Operation



Figure 22: Measurement Reporting procedure, Successful Operation

If the requested measurement reporting criteria are met, the DRNS shall initiate a Measurement Reporting procedure. If the measurement was initiated (by the Measurement Initiation procedure) for multiple dedicated measurement objects, the DRNC may include measurement values for multiple objects in the DEDICATED MEASUREMENT REPORT message. Unless specified below, the meaning of the parameters are given in other specifications.

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

If the achieved measurement accuracy does not fulfil the given accuracy requirement, the Measurement not available shall be reported.

8.3.12.3 Abnormal Conditions

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8.3.13 Measurement Termination

8.3.13.1 General

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

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

The 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: Measurement Termination procedure, Successful Operation

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

Upon reception, the DRNS shall terminate reporting of measurements corresponding to the received Dedicated Measurement Id.

8.3.13.3 Abnormal Conditions

-

8.3.14 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 Measurement Initiation procedure can no longer be reported.

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

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

8.3.14.2 Successful Operation



Figure 24: Measurement Failure procedure, 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 measurement no longer can be reported.

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 the 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 deletion of the last Radio Link in this DRNS 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 DRNC shall perform the power adjustment (see below) for all radio links for the UE context using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the DRNC 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 value of the *Power Adjustment Type* IE is "None", the DRNS shall suspend on going power adjustments for all radio links for the UE context.

Power Adjustment

The power balancing adjustment superimposed on the inner loop power control adjustment (see Ref. [10]) shall be such that:

$$\sum P_{bal} = (1-r)(P_{ref} - P_{init})$$
 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, *Pref* is the value of the *DL Reference Power* IE, *Pinit* is the power at the beginning of the adjustment period and *r* is given by the *Adjustment Ratio* IE.

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 repeated for every adjustment period, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

8.3.15.3 Abnormal Conditions

-

8.3.16 Compressed Mode Command [FDD]

8.3.16.1 General

The Compressed Mode Command procedure is used to activate 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 DRNS shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN requested by SRNC when receiving COMPRESSED MODE COMMAND message from the SRNC. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The *CM Configuration Change CFN* in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value.

If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].

8.3.16.3 Abnormal Conditions

-

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 UE context in the DRNC.

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

8.4.1.2 Successful Operation

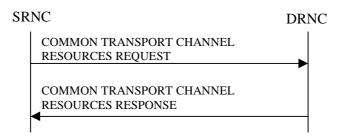


Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST to the DRNC.

Upon reception of the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall respond by sending a COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message to the SRNC.

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 and include the *Binding Identity* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to" Bearer not Requested", the DRNC shall use the transport bearer for the 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 there exists multiple Secondary CCPCHs in the cell indicated by the *C-ID* IE or if no *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCE REQUEST message in the cell where the UE is located and the DRNC decides to use the DRNC selected Secondary CCPCH instead of UE selected Secondary CCPCH, the *FACH Info for DRNC Selected S-CCPCH* IE group shall be included in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the DRNC includes the *FACH Info for DRNC Selected S-CCPCH* IE group, then it shall also include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class for this Secondary CCPCH.

If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message or if the DRNC does not include the *FACH Info for DRNC Selected S-CCPCH* IE group in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE group in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. The DRNC shall include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE in the *FACH Info for UE Selected S-CCPCH* IE group 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 there exists multiple RACHs in the cell where the UE is located and the DRNC decides to use the DRNC selected PRACH instead of the UE selected PRACH, the *RACH Info for DRNC Selected PRACH* IE group shall be included 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 *URA ID* IE of the cell identified by the received *C-ID* IE, the *Multiple URA Indicator* IE indicating whether or not the cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA in the cell.

8.4.1.3 Unsuccessful Operation

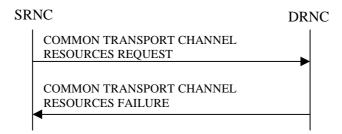


Figure 28: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation

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 respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, indicating the cause of the failure.

Typical cause values are:

Radio Network Layer Causes:

RACH/FACH/CPCH not Supported.

8.4.1.4 Abnormal Conditions

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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 message COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST to the DRNC. The SRNC may include the *C-RNTI* IE in the message to request the release of an individual C-RNTI.

At the reception of the message, if the *C-RNTI* IE is not present in the message, the DRNC shall release the whole UE context identified by the D-RNTI.

If the *C-RNTI* IE is included in the message, the DRNC shall release only the indicated C-RNTI.

8.4.2.3 Abnormal Conditions

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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 one incoming message, provided they cannot be reported by an appropriate failure message.

This procedure shall use the signalling bearer mode specified below.

8.5.1.2 Successful Operation

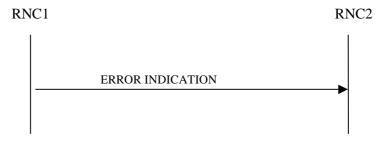


Figure 30: Error Indication procedure, Successful Operation

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.

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

8.5.1.3 Abnormal Conditions

-

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 section 9.3. In case there is contradiction between the tabular format in section 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.

9.1.2 Message Contents

9.1.2.1 Presence

An information element can be of the following types:

M	The information element is mandatory, i.e. always present in the message
0	The information element is optional, i.e. may or may not be present in the message independently on the
	presence or value of other information elements in the same message
C#	The presence of the information element is conditional to the presence or to the value of another information
	element, as reported in the table below the message containing the explanation of the condition.

In case of an information element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. 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 a criticality information applied to it. Following cases are possible:

_	No criticality information is applied explicitly.
YES	Criticality information is applied. 'YES' is usable only for non-repeatable information elements.
GLOBAL	The information element and all its repetitions together have one common criticality information.
	'GLOBAL' is usable only for repeatable information elements.
EACH	Each repetition of the information element has its own criticality information. It is not allowed to assign
	different criticality values to the repetitions. 'EACH' is usable only for repeatable information elements.

9.1.3 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	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
SRNC-Id	М		RNC-Id 9.2.1.50		YES	reject
S-RNTI	M		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	M		9.2.2.53		_	
>Min UL Channelisation Code Length	М		9.2.2.25		_	
>Max Number of UL	C -		9.2.2.24		_	
DPDCHs	CodeLen					
>Puncture Limit	M		9.2.1.46	For the UL.	_	
>TFCS	M		TFCS for		_	
			the UL			
			9.2.1.63			
>UL DPCCH Slot Format	M		9.2.2.52		_	
>Uplink SIR Target	0		Uplink SIR 9.2.1.69		_	
>Diversity mode	M		9.2.2.8		_	
>SSDT Cell Identity Length	0		9.2.2.41 9.2.2.36		_	
>S Field Length DL DPCH Information	0	1	9.2.2.36		VEC.	roinat
>TFCS	M	1	TFCS for		YES	reject
>1FC5	IVI		the DL. 9.2.1.63		_	
>DL DPCH Slot Format	М		9.2.2.9		_	
>Number of DL channelisation codes	М				_	
>TFCI Signalling Mode	М		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		_	
>Multiplexing Position	М		9.2.2.26		_	
>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.	-	
>>P03	М		Power Offset 9.2.2.30	Power offset for the pilot bits.	-	
>FDD TPC Downlink Step Size	М		9.2.2.16		_	
>Limited Power Increase	М		9.2.1.33		_	
DCH Information		1 <maxno ofDCHs></maxno 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	М		9.2.1.16		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>TrCh Source Statistics	M		9.2.1.65		_	
Descriptor	IVI		9.2.1.03		_	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	M		9.2.1.64	For the DL.	_	
>>BLER	M		9.2.1.3	For the UL.	_	
>>BLER	M		9.2.1.3	For the DL.	_	
>>Allocation/Retention	M		9.2.1.1		_	
Priority			0.2			
>>Frame Handling Priority	М		9.2.1.29		_	
>>QE-Selector	М		9.2.1.46A		_	
>>DRAC control	М		9.2.2.13		_	
DSCH Information		01			YES	reject
>DSCH Info		1 <maxno ofDSCHs></maxno 			EACH	reject
>>DSCH ID	М				_	
>>TrCh Source	М				_	
Statistics Descriptor						
>>Transport Format	М			For DSCH	_	
Set						
>>Allocation/Retention Priority	М				_	
>>Scheduling Priority	М				_	
Indicator						
>>BLER	M				_	
>PDSCH RL ID	M		RL ID			
>TFCS	М		TFCS for the DL.	For DSCH	-	
RL Information		1 <maxn oofRLs></maxn 			EACH	notify
>RL ID	М		9.2.1.49		_	
>C-Id	М		9.2.1.6		_	
>First RLS Indicator	М				-	
>Frame Offset	М		9.2.1.30		_	
>Chip Offset	M		9.2.2.1		_	
>Propagation Delay	0		9.2.2.33		_	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		_	
>Initial DL TX Power	C_ifAlone		DL Power 9.2.2.10		_	
>Primary CPICH Ec/No	C_ifAlone		9.2.2.32		_	
>SSDT Cell Identity	0		9.2.2.40		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		_	
Transmission Gap Pattern Sequence Information	0				YES	reject
Active Pattern Sequence Information	0				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length"
	equals to 4
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of
	the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the RL
	Information.
Diversity mode	This IE is present unless Diversity Mode IE in UL DPCH Information
	group is "none"
C_Ifalone	Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be
	present.

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.

9.1.3.2 TDD 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		_	
SRNC-Id	M		RNC-Id		YES	reject
			9.2.1.50			
S-RNTI	M		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 Physical Channel Information		1			EACH	reject
>Maximum Timeslot per frame	М		9.2.3.3A	For the UL		
>Minimum Spreading Factor	М		9.2.3.4A	For the UL		
>Maximum number of UL physical channels per timeslot	M		9.2.3.3B			
DL Physical Channel Information		1			EACH	reject
>Maximum Timeslot per frame	M		9.2.3.3A	For the DL		
>Minimum Spreading Factor	M		9.2.3.4A	For the DL		
>Maximum number of DL physical channels per frame	M		9.2.3.3C			
UL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH and USCH	EACH	notify
>CCTrCH ID	М	07	9.2.3.2		_	
>TFCS	M		9.2.1.63	For the UL.	_	
>TFCI Coding	M		9.2.3.11	FOI THE OL.		
>Puncture Limit	M		9.2.3.11			
DL CCTrCH Information	IVI	0 <maxno ofCCTrCH s></maxno 	9.2.1.40	For DCH and DSCH	EACH	notify
>CCTrCH ID	М	0,	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 Size	М		9.2.3.10		_	
>TPC CCTrCH List		1 to <maxnoc CTrCH></maxnoc 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.2		-	
DCH Information		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		_	
>UL FP Mode	M		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	M		9.2.1.16		_	
>>CCTrCH ID	М		9.2.3.2	UL CCTrCH in which the DCH is mapped	_	

>>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DCH is mapped	-	
>>TrCh Source Statistics Descriptor	М		9.2.1.65		_	
>>Transport Format Set	M		9.2.1.64	For the UL.	_	
>>Transport Format Set	M		9.2.1.64	For the DL.	_	
>>BLER	M		9.2.1.3	For the UL.	_	
>>BLER	M		9.2.1.3	For the DL.	_	
>>Allocation/Retention Priority	М		9.2.1.1		_	
>>Frame Handling Priority	M		9.2.1.29		_	
>>QE-Selector	C- CoorDCH		9.2.1.46A		_	
DSCH Information		0 to <maxnoof DSCHs></maxnoof 			GLOBAL	reject
>DSCH ID	M				_	
>CCTrCH ID	М			DL CCTrCH in which the DSCH is mapped	-	
>TrCh Source Statistics Descriptor	М				_	
>Transport Format Set	М			For DSCH	_	
>Allocation/Retention Priority	M				_	
>Scheduling Priority	M				_	
Indicator						
>BLER	M				_	
USCH Information		0 to <maxnoof USCHs></maxnoof 			GLOBAL	reject
>USCH ID	M				_	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	-	
>TrCh Source Statistics Descriptor	M				_	
>Transport Format Set	М			For USCH	_	
>Allocation/Retention Priority	M				_	
>Scheduling Priority Indicator	М				_	
>RB Info		1 to <maxnoof RB></maxnoof 		All Radio Bearers using this USCH	-	
>>RB Identity	М				-	
RL Information		1			YES	reject
>RL ID	M		9.2.1.49		_	
>C-Id	M		9.2.1.6		_	
>Frame Offset	M		9.2.1.30		_	
>Primary CCPCH RSCP	0	<u> </u>	9.2.3.5	1	_	
>Time slot ISCP Info		0 <maxno ofDLts></maxno 			_	
>>Time slot	М				-	
>>DL Timeslot ISCP	M		9.2.3.12		_	

Condition	Explanation
CoorDCH	This IE is present only this DCH is part of a set of coordinated DCHs
	(number of instances of DCH Specific Info is greater than 1)

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofRBs	Maximum number of Radio Bearers for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link

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	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	Ō		9.2.1.11		YES	ignore
RL Information Response		1 <maxno ofRLs></maxno 	0.2		EACH	ignore
>RL ID	M		9.2.1.49		_	
>RL Set ID	M		9.2.2.35		_	
>URA ID	M		9.2.1.70		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0				_	
>UTRAN Access Point Position	0				_	
>RSSI	М		9.2.2.35A		_	
>Secondary CCPCH Info	···	01	3.2.2.007		_	
>>FDD S-CCPCH Offset	М	01	9.2.2.15	Corresponds	_	
				to: T _{S-CCPCH,k} , see ref. [8]		
>>DL Scrambling Code	M		9.2.2.8		_	
>>FDD DL Channelisation Code Number	M		9.2.2.14		_	
>>TFCS	M		9.2.1.63	For the DL.		
>>Secondary CCPCH Slot Format	M		9.2.1.03	FOI the DL.	<u> </u>	
>>TFCI presence	C - SlotFormat		9.2.1.55		_	
Multiplaving Desition	M		0.0.0.00			
>>Multiplexing Position	M		9.2.2.26 9.2.2.44		_	
>>STTD Indicator	IVI		9.2.2.44		_	
>>FACH/PCH Information		1 <maxfac Hcount+1></maxfac 			_	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	_	
>>Scheduling Information		1			_	
>>>IB_SG_REP	М		9.2.2.4		_	
>>>Segment	171	1	J.L.L.T		_	
Information		<maxibse G></maxibse 			_	
>>>>IB_SG_POS	M		9.2.2.20		_	
>DL Code Information		1 <maxnoof DLCodes</maxnoof 			-	
>>DL Scrambling Code	М	220000	9.2.2.8	1	_	
>>FDD DL Channelisation Code Number	M		9.2.2.14		_	
>>Transmission Gap Pattern Sequence Information Response	0				-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>Diversity Indication	C- NotFirstRL		9.2.2.7		_	
>CHOICE diversity Indication						
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0 <maxno ofDCHs></maxno 		Only one DCH per set of co-ordinated DCHs shall be included	-	
>>>DCH ID	М		9.2.1.16		_	
>>>Binding ID	M		9.2.1.3		_	
>>>>Transport Layer Address	М		9.2.1.62		_	
>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				-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		-	
>Maximum DL TX Power	М		DL Power 9.2.2.10		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>DSCH Information Response		01			YES	ignore
>>DSCH Information		1 <maxno ofdschs=""></maxno>			_	
>>>DSCH ID	M				_	
>>>Priority Indicator		116		Provide Information for each priority class used	_	
>>>Scheduling Priority Indicator	M			For DSCH	_	
>>>>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength></maxnb 			_	
>>>>MAC-c/sh SDU Length	М				-	
>>>Binding ID	M				_	
>>>Transport Layer Address	М				_	
>>PDSCH code mapping	М			PDSCH code mapping to be used	-	
>Neighbouring Cell Information		0 <maxnoof neighbourin gRNCs></maxnoof 			EACH	ignore
>>RNC-Id	M		9.2.1.50		_	
>>CN PS Domain Identifier	0		9.2.1.12		_	
>>CN CS Domain Identifier	0		9.2.1.11		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Per FDD Cell Information		0 <maxno ofFDDneig hbours></maxno 				
>>>C-Id	М		9.2.1.6			
>>>UARFCN	М		9.2.1.66	Corresponds to Nu in ref. [6]	_	
>>>UARFCN	M		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			
>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3			
>>Per TDD Cell Information		0 <maxno ofTDDneig hbours></maxno 				
>>>C-Id	М		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	М		9.2.1.8		_	
>>>Sync Case	М		9.2.1.54		_	
>>>Time Slot	C-Case1		9.2.1.56		_	
>>>SCH Time Slot	C-Case2		9.2.1.51		_	
>>>Block STTD Indicator	M				_	
>>>Cell Individual Offset	0		9.2.1.7		_	
>>>DPCH Constant Value	0		9.2.1.23		_	
>>>PCCPCH Power	0		9.2.1.43		_	
Jplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.4.2 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		_	-,
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		1			YES	ignore
>RL ID	М		9.2.1.49		_	
>URA ID	М		9.2.1.70		_	
>SAI	М		9.2.1.52		_	
>Cell GAI	0				_	
>UTRAN Access Point	0				_	
Position						
>UL Interference per Time Slot		1 <maxnoof ULts></maxnoof 		Interference Level for each UL time slot within the Radio Link	-	
>>Time Slot	М		9.2.1.56		_	
>>UL Timeslot ISCP	М		9.2.3.13A		_	
>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 9.2.2.10		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>Timing Adjustment Required	М		9.2.3.12A		-	
>UL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information	1.01	01	0.2.0.2		YES	ignore
>>>Repetition Period	М	01	9.2.3.7		-	ignore
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot Information	IVI	1 to <maxnoof TS</maxnoof 	3.2.3.07		_	
>>>>Time Slot	М	,,,	9.2.1.56		_	
>>>Midamble Shift	M		9.2.3.4		_	
and Burst Type	'''		9.2.0.4		_	
>>>TFCI Presence	М		9.2.1.55		_	
>>>UL Code	141	1 to	0.2.1.00	<u> </u>	_	
Information		<maxnoof DPCH></maxnoof 				
>>>>DPCH ID	M		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information	1	01			YES	ignore
>>>Repetition Period	М		9.2.3.7			.3
>>>Repetition Length	M	1	9.2.3.6		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>TDD DPCH Offset	М		9.2.3.x		_	
>>>DL Timeslot Information		1 to <maxnoof TS</maxnoof 			_	
>>>Time Slot	М	1,5	9.2.1.56		_	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		-	
>>>TFCI Presence	М		9.2.1.55		_	
>>>>DL Code Information		1 to <maxnoof DPCH></maxnoof 			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	M		9.2.3.8		-	
>DCH Information Response		1 <maxno ofDCHs></maxno 		Only one DCH per set of co-ordinated DCHs shall	GLOBAL	ignore
				be included.		
>>DCH ID	М		9.2.1.16		_	
>>Binding ID	М		9.2.1.3		_	
>>Transport Layer Address	М		9.2.1.62		_	
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М				_	
>>Priority Indicator		116		Provide Information for each priority class used	_	
>>>Scheduling Priority Indicator	М			For DSCH	_	
>>>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength></maxnb 			_	
>>>>MAC-c/sh SDU Length	М				-	
>>Binding ID	М				_	
>>Transport Layer Address	М				_	
>>Transport Format Management	М				-	
>USCH Information Response		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М				_	
>>Binding ID	M		ļ		_	
>>Transport Layer Address	М				_	
>>Transport Format Management	M				_	
>Neighbouring Cell Information	0	0 <maxno ofneighbo uringRNCs ></maxno 			EACH	ignore
>>RNC-Id	М		9.2.1.50		_	
>>CN PS Domain Identifier	0		9.2.1.12		_	
>>CN CS Domain Identifier	0		9.2.1.11		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Per FDD Cell Information		0 <maxno ofFDDneig hbours></maxno 				
>>>C-Id	M		9.2.1.6		_	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	_	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	_	
>>>Frame Offset	0		9.2.1.30		_	
>>>Primary Scrambling Code	M		9.2.1.45		_	
>>>Cell Individual Offset	0		9.2.1.7		ı	
>>>Primary CPICH Power	0		9.2.1.44		_	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	0		9.2.2.45		_	
>>>Closed Loop Mode1 Support Indicator	0		9.2.2.2		_	
>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3		_	
>>Per TDD Cell Information		0 <maxno ofTDDneig hbours></maxno 			-	
>>>C-Id	M		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	M		9.2.1.8		_	
>>>Sync Case	M		9.2.1.54		_	
>>>Time Slot	C-Case1		9.2.1.56		_	
>>>SCH Time Slot	C-Case2		9.2.1.51		_	
>>>Block STTD Indicator	M				_	
>>>Cell Individual Offset	0		9.2.1.7		_	
>>>DPCH Constant Value	0		9.2.1.23		_	
>>>PCCPCH Power	0		9.2.1.43		_	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 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	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			0.2			.g
>General					Yes	ignore
>>Cause	М					<u> </u>
>RL specific					Yes	ignore
>>Unsuccessful RL		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxn<>			EACH	ignore
Information Response		oofRLs>				9 -
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				3
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>>URA ID	M		9.2.1.70		_	
>>>SAI	M		9.2.1.52	1	_	
>>>RSSI	M		9.2.2.35A		_	
>>>DL Code Information		1 <maxno ofDLCode s</maxno 	0.2.2.0071		GLOBAL	ignore
>>>>DL Scrambling Code	М	3	9.2.2.8		_	
>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>Transmission Gap Pattern Sequence Information Response	0		9.2.2.47B		_	
>>>Diversity Indication	М		9.2.2.7		_	
>>>CHOICE diversity Indication					_	
>>>Combining					YES	ignore
>>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	-	-
>>>Non Combining First RL					YES	ignore
>>>>DCH Information Response		0 <maxno ofDCHs></maxno 		Only one DCH per set of co-ordinated DCHs shall be included.	_	
>>>>DCH ID	M		9.2.1.16		_	
>>>>Binding ID	M		9.2.1.3		_	
>>>>Transport Layer Address	М		9.2.1.62		_	
>>>SSDT Support Indicator	М		9.2.2.43			
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		_	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>>>Closed loop timing adjustment mode	0				-	
>>>Maximum Allowed	M		9.2.1.35		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
UL Tx Power			1010101100			
>>>Maximum DL TX Power	М		DL Power 9.2.2.10		_	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		_	
>>>DSCH Information		0 <maxno< td=""><td>9.2.2.10</td><td></td><td>GLOBAL</td><td>ignore</td></maxno<>	9.2.2.10		GLOBAL	ignore
Response >>>>DSCH ID	M	ofDSCHs>			_	
>>>>Binding ID	M				_	
>>>>Transport Layer Address	M				_	
>>>Neighbouring Cell Information	0	0 <maxnoof neighbourin gRNCs></maxnoof 			EACH	ignore
>>>RNC-Id	М	graveez	9.2.1.50		_	
>>>>CN PS Domain	0		9.2.1.12		_	
Identifier >>>>CN CS Domain Identifier	0		9.2.1.11		_	
>>>>Per FDD Cell Information		0 <maxno ofFDDneig hbours></maxno 			_	
>>>>C-Id	М	TIDOUIS2	9.2.1.6		_	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	_	
>>>>UARFCN	М		9.2.1.66	Corresponds to Nd in ref.	_	
>>>>Frame Offset	0		9.2.1.30	[e]	_	
>>>>Primary Scrambling Code	M		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	0		9.2.2.45		_	
>>>>Closed Loop Mode1 Support Indicator	0		9.2.2.2		_	
>>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3		-	
>>>>Per TDD Cell Information		0 <maxno ofTDDneig hbours></maxno 			-	
>>>>C-Id	М		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	М		9.2.1.8		_	
>>>>Sync Case	М	1	9.2.1.54		_	
>>>>Time Slot	C-Case1	1	9.2.1.56		_	
>>>>SCH Time Slot	C-Case2	1	9.2.1.51		_	
>>>>Block STTD Indicator	M		-		_	
>>>>Cell Individual Offset	0		9.2.1.7		_	
>>>>DPCH	0		9.2.1.23		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Constant Value						
>>>>PCCPCH Power	0		9.2.1.43		_	
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation		
MaxnoofRLs	Maximum number of RLs for one UE.		
MaxnoofDCHs	Maximum number of DCHs for one UE.		
MaxnoofDSCHs	Maximum number of DSCHs for one UE.		
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs		
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell		
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell		

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	M		9.2.1.59		_	•
CHOICE cause level						
>General					Yes	ignore
>>Cause	М					
>RL specific					Yes	ignore
>>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	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		ı	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	reject
RL Information		1 <maxn oofRLs- 1></maxn 			EACH	notify
>RL ID	M		9.2.1.49		_	
>C-ld	M		9.2.1.6		-	
>Frame Offset	M		9.2.1.30		_	
>Chip Offset	M		9.2.2.1		_	
>Diversity Control Field	M		9.2.2.6		_	
>Primary CPICH Ec/No	0		9.2.2.32		ı	
>SSDT Cell Identity	0		9.2.2.40			
>Transmit Diversity Indicator	0		9.2.2.50		1	
Active Pattern Sequence Information	0			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

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	Semantics description	Criticality	Assigned Criticality
			reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
RL Information		1			YES	reject
>RL ID	M		9.2.1.49		_	
>C-ld	M		9.2.1.6		_	
>Frame Offset	M		9.2.1.30		_	
>Diversity Control Field	M		9.2.2.6		_	
>Primary CCPCH RSCP	0		9.2.3.5		_	
>Time slot ISCP Info		0 <ma xnoofD Lts></ma 			_	
>>Time slot	М				_	
>>DL Timeslot ISCP	M		9.2.3.12		_	

Range bound	Explanation
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link

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	M		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
RL Information Response		1 <maxnoof RLs-1></maxnoof 			EACH	ignore
>RL ID	M		9.2.1.49		_	
>RL Set ID	M		9.2.2.35		_	
>URA ID	M		9.2.1.70		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0				_	
>UTRAN Access Point Position	0				_	
>RSSI	M		9.2.2.35A		_	
>Secondary CCPCH Info		01			_	
>>FDD S-CCPCH Offset	М		9.2.2.15	Corresponds to: τ _{S-CCPCH,k}	_	
				, see ref. [8]		
>>DL Scrambling Code	M		9.2.2.8		-	
>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>TFCS	М		9.2.1.63	For the DL.	_	
>>Secondary CCPCH Slot Format	М		9.2.2.38		_	
>>TFCI presence	C - SlotFormat		9.2.1.55		_	
>>Multiplexing Position	M		9.2.2.26		_	
>>STTD Indicator	М		9.2.2.44		_	
>>FACH/PCH Information		1 <maxfachc ount+1></maxfachc 			-	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	_	
>>Scheduling		1			_	
Information						
>>>IB_SG_EP	M		9.2.2.21		_	
>>>Segment Information		1 <maxibseg ></maxibseg 			_	
>>>IB_SG_POS	М		9.2.2.20		_	
>DL Code Information		1 <maxnoof DLCodes></maxnoof 	3.2.2. 2.3		GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		-	
>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>Transmission Gap Pattern Sequence Information Response	0				_	
>Diversity Indication >CHOICE diversity indication	M		9.2.2.7		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining			1010101100		YES	ignore
>>>RL ID	М		9.2.1.49	Reference RL-Id	_	
>>Non combining					YES	ignore
>>>DCH Information Response		1 <maxnoof DCHs></maxnoof 		Only one DCH per set of co-ordinated DCHs shall be included.	-	
>>>DCH ID	M		9.2.1.16		_	
>>>>Binding ID	M		9.2.1.3		_	
>>>>Transport Layer Address	М		9.2.1.62		_	
>SSDT Support Indicator	M		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		-		-	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.2.10		-	
>Minimum DL TX Power	М		DL Power 9.2.2.10		-	
>Neighbouring Cell Information		0 <maxnoofn eighbouringR NCs></maxnoofn 			EACH	ignore
>>RNC-Id	М		9.2.1.50		_	
>>CN PS Domain Identifier	0		9.2.1.12		_	
>>CN CS Domain Identifier	0		9.2.1.11		_	
>>Per FDD Cell Information		0 <maxnoof FDDneighbo urs></maxnoof 			_	
>>>C-ld	М		9.2.1.6		_	
>>>UARFCN	М		9.2.1.66	Corresponds to Nu in ref. [6]	_	
>>>UARFCN	М		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		_	
>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3		_	_
>>Per TDD Cell Information		0 <maxnoof TDDneighbo</maxnoof 				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		urs>				
>>>C-Id	M		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	M		9.2.1.8		_	
>>>Sync Case	M		9.2.1.54		_	
>>>Time Slot	C-Case1		9.2.1.56		_	
>>>SCH Time Slot	C-Case2		9.2.1.51		_	
>>>Block STTD Indicator	M				_	
>>>Cell Individual Offset	0		9.2.1.7		_	
>>>DPCH Constant Value	0		9.2.1.23		_	
>>>PCCPCH Power	0		9.2.1.43		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is
	equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 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		-	10,000
RL Information Response		1	0.2		YES	ignore
>RL ID	М	•	9.2.1.49		-	ignore
>URA ID	M		9.2.1.70		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		0.2.1.02		_	
>UTRAN Access Point Position	0				_	
>UL Interference per Time Slot		1 <maxnoofu Lts></maxnoofu 		Interference Level for each UL time slot within the Radio Link	-	
>>Time Slot	M		9.2.1.56		_	
>>UL Timeslot ISCP	М		9.2.3.13A		_	
>Timing Adjustment Required	М		9.2.3.12A		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						J
>>>Repetition Period	M		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot Information		1 to <maxnooft S</maxnooft 			-	
>>>>Time Slot	M		9.2.1.56		_	
>>>Midamble Shift and Burst Type	M		9.2.3.4		_	
>>>TFCI Presence	M		9.2.1.55		_	
>>>>UL Code Information		1 to <maxnoofd PCH></maxnoofd 			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></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	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>DL Timeslot Information		1 to <maxnooft S</maxnooft 			-	
>>>>Time Slot	M	3	9.2.1.56			
>>>>Midamble Shift and Burst Type	M		9.2.3.4		_	
>>>TFCI Presence	M		9.2.1.55		_	
>>>> TFCT Presence	IVI	1 to	ಶ.∠.1.33		_	
>>>>DL Code Information		<pre>1 to <maxnoofd pch=""></maxnoofd></pre>			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD	M		9.2.3.8		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Channelisation						
Code					\/=0	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE diversity indication						
>>Combining					YES	ignore
>>>RL ID	М		9.2.1.49	Reference	163	ignore
>>\C 1D	IVI		3.2.1.43	RL		
>>Non combining					YES	ignore
>>>DCH Information		1 <maxnoof< td=""><td></td><td>Only one</td><td>_</td><td></td></maxnoof<>		Only one	_	
Response		DCHs>		DCH per set		
				of		
				co-ordinated		
				DCHs shall		
>>>DCH ID	M		9.2.1.16	be included.		
>>>Binding ID	M		9.2.1.10			
>>>>Transport Layer	M		9.2.1.62		_	
Address			0.2.1.02			
>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 9.2.2.10		_	
>Minimum DL TX Power	М		DL Power 9.2.2.10		_	
>DSCH Information		0	0.2.2.10		GLOBAL	ignore
Response		<maxnoof DSCHs></maxnoof 				.9
>>DSCH ID	М				_	
>>Transport Format Management	М				_	
>>Priority Indicator		116		Provide	_	
				Information for each		
				priority class used		
>>>Scheduling Priority	M			DSCH	_	
Indicator				priority		
>>>MAC-c/sh SDU		1 <maxnb< td=""><td></td><td>indicator</td><td>_</td><td></td></maxnb<>		indicator	_	
Length		MAC-			_	
_0g		c/shSDULen				
		gth>				
>>>MAC-c/sh SDU	M				_	
Length						
>>CHOICE Diversity Indication					_	
>>>Non combining					_	
>>>BindingID	M				_	
>>>>Transport	M				_	
Layer Address >USCH Information		0			GLOBAL	ignore
Response		<pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>			GLOBAL	ignore
>>USCH ID	M	U3UN8>		+	_	
>>Transport Format	M					
Management >>CHOICE Diversity						
>>CHOICE Diversity Indication					_	
>>Non	1	 			_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
combining						
>>>BindingID	М				_	
>>>>Transport Layer Address	М				_	
>Neighbouring Cell Information		0 <maxnoofn eighbouringR NCs></maxnoofn 			EACH	ignore
>>RNC-Id	М		9.2.1.50		_	
>>CN PS Domain Identifier	0		9.2.1.12		_	
>>CN CS Domain Identifier	0		9.2.1.11		-	
>>Per FDD Cell Information		0 <maxnoof FDDneighbo urs></maxnoof 			-	
>>>C-Id	М		9.2.1.6		_	
>>>UARFCN	М		9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>UARFCN	М		9.2.1.66	Corresponds to Nd in ref. [6]	1	
>>>Frame Offset	0		9.2.1.30		ı	
>>>Primary Scrambling Code	М		9.2.1.45		-	
>>>Primary CPICH Power	0		9.2.1.44		_	
>>>Cell Individual Offset	0		9.2.1.7		ı	
>>>Tx Diversity Indicator	M		9.2.2.50		-	
>>>STTD Support Indicator	0		9.2.2.45		_	
>>>Closed Loop Mode1 Support Indicator	0		9.2.2.2		-	
>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3		-	
>>Per TDD Cell Information		0 <maxnoof TDDneighbo urs></maxnoof 			-	
>>>C-ld	М		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	M		9.2.1.8		_	
>>>Sync Case	M		9.2.1.54		_	
>>>Time Slot	C-Case1		9.2.1.56		_	
>>>SCH Time Slot >>>Block STTD	C-Case2 M		9.2.1.51		<u>-</u> -	
Indicator >>>Cell Individual	0		9.2.1.7		_	
Offset >>>DPCH Constant	0		9.2.1.23		-	
Value >>>PCCPCH Power	0		9.2.1.43	+	_	
Criticality Diagnostics	0		9.2.1.43		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one
	cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one
	cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

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	M		9.2.1.59		_	
CHOICE cause level						
>General					Yes	ignore
>>Cause	М					.g
>RL specific					Yes	ignore
>>Unsuccessful RL		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-1>				.9
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>>Successful RL		0 <maxnoof< td=""><td>0.20</td><td></td><td>EACH</td><td>ignore</td></maxnoof<>	0.20		EACH	ignore
Information Response		RLs-2>				.9
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>>URA ID	M		9.2.1.70		_	
>>>SAI	M		9.2.1.52		_	
>>>RSSI	M		9.2.2.35A		_	
>>>DL Code	171	1 <maxnoof< td=""><td>3.2.2.33A</td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>	3.2.2.33A		GLOBAL	ignore
Information		DLCodes>			GLOBAL	ignore
>>>DL Scrambling	M	DECOUES	9.2.2.8		_	
Code					_	
>>>>FDD DL Channelisation Code Number	М		9.2.2.14		_	
>>>>Transmission Gap Pattern Sequence Information Response	0		9.2.2.47B		_	
>>>Diversity Indication	М		9.2.2.7		YES	ignore
>>>CHOICE diversity indication	101		0.2.2.7		120	ignoro
					VEC	:
>>>Combining			0.0.4.40	D (YES	ignore
>>>>RL ID	M		9.2.1.49	Reference RL-Id	-	
>>>Non combining					YES	ignore
>>>>DCH Information Response		1 <maxnoof DCHs></maxnoof 		Only one DCH per set of co-ordinated DCHs shall be included.	_	
>>>>DCH ID	M		9.2.1.16		_	
>>>>Binding ID	М		9.2.1.3		_	
>>>>Transport Layer Address	М		9.2.1.62		_	
>>>SSDT Support	М		9.2.2.43		_	
Indicator >>>Minimum Uplink	M		Uplink SIR		_	
SIR >>>Maximum Uplink	M		9.2.1.69 Uplink SIR		_	
SIR >>>Closed loop timing	0		9.2.1.69		-	
adjustment mode >>>Maximum Allowed	M		9.2.1.35		_	
UL Tx Power					_	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		_	
>>>Minimum DL TX Power	М		DL Power 9.2.2.10		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Neighbouring Cell Information		0 <maxnoofn eighbouringR NCs></maxnoofn 			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		-	
>>>CN PS Domain Identifier	0		9.2.1.12		-	
>>>>CN CS Domain Identifier	0		9.2.1.11		-	
>>>Per FDD Cell Information		0 <maxnoof FDDneighbo urs></maxnoof 				
>>>>C-Id	М		9.2.1.6			
>>>>UARFCN	М		9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>Frame Offset	0		9.2.1.30		-	
>>>>Primary Scrambling Code	M		9.2.1.45		_	
>>>>Primary CPICH Power	0		9.2.1.44		-	
>>>>Cell Individual Offset	0		9.2.1.7			
>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>STTD Support Indicator	0		9.2.2.45			
>>>>Closed Loop Mode1 Support Indicator	0		9.2.2.2			
>>>>Closed Loop Mode2 Support Indicator	0		9.2.2.3			
>>>>Per TDD Cell Information		0 <maxnoof TDDneighbo urs></maxnoof 				
>>>>C-Id >>>>>UARFCN	M		9.2.1.6 9.2.1.66	Corresponds to Nt in ref. [7]	_	
>>>>Frame Offset	0		9.2.1.30	[,]	_	
>>>>Cell Parameter ID	M		9.2.1.8		_	
>>>>Sync Case	M		9.2.1.54	 	_	
>>>>Time Slot	C-Case1		9.2.1.54			
>>>>SCH Time Slot	C-Case2		9.2.1.51		_	
>>>>Block STTD Indicator	М				_	
>>>>Cell Individual Offset	0		9.2.1.7		_	
>>>>DPCH Constant Value	0		9.2.1.23		-	
>>>>PCCPCH Power	0		9.2.1.43		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information

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						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		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	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
RL Information		1 <maxno ofRLs></maxno 			EACH	notify
>RL ID	M		9.2.1.49		_	

Range bound	Explanation			
MaxnoofRLs	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	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.11 RADIO LINK RECONFIGURATION PREPARE

FDD Message 9.1.11.1

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
_			Reference		\/=0	
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59 9.2.1.2			u=:==4
Allowed Queuing Time UL DPCH Information	0	01	9.2.1.2		YES YES	reject
>UL Scrambling Code		01	9.22.53		YES	reject
>UL Strambling Code >UL SIR Target	0		Uplink SIR		_	
· ·			9.2.1.69		_	
>Min UL Channelisation Code Length	0		9.2.2.25		_	
>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		_	
>Diversity mode	0		9.2.2.8		-	
>SSDT Cell Identity	0		9.2.2.41		-	
Length						
>S-Field Length	0		9.2.2.36		_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	_	,
>DL DPCH Slot Format	0		9.2.2.9		_	
>Number of DL channelisation codes	0				_	
>TFCI Signalling Mode	0		9.2.2.46		_	
>TFCI Presence	C- SlotFormat		9.2.1.55		_	
>MultiplexingPosition	O		9.2.2.26		_	
>Limited Power Increase	0		9.2.1.33		_	
DCHs to Modify		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>UL FP Mode	0		9.2.1.67		_	
>ToAWS	0		9.2.1.58		_	
>ToAWE	0		9.2.1.57		_	
>DCH Specific Info		1 <maxnoof DCHs></maxnoof 			_	
>>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		_	
>>DRAC Control	0		9.2.2.13		_	
DCHs to Add		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxnoof DCHs></maxnoof 			_	
>>DCH ID	M		9.2.1.16		_	
>>TrCh Source Statistics	M		9.2.1.65		_	

Descriptor		signed ticality
>> Transport Format Set	Note in the second seco	
>>Transport Format Set M 9.2.1.64 For the DL - ->>BLER M 9.2.1.3 For the DL - ->>BLER M 9.2.1.1 For the DL - ->>BLER M 9.2.1.1 For the DL - ->>BRAILOCATION/Retention M 9.2.1.1 For the DL - ->>DRAILOCATION/RETENTION M 9.2.1.1 For the DL - ->>DRAILOCATION/RETENTION M 9.2.1.1 For the DL - ->>DRAILOCATION/RETENTION FOR THE DATE OF THE	9.2.1.64 For the UL. –	
Selection		
Selection		
SAIlocation/Retention M		
Priority		
Priority Social Selector M		
Sobrace		
DCHs to Delete		
DCHs DCHs Section		
DSCH to modify		eject
SDSCH Info	9.2.1.16 –	
SDSCH Info		eject
Sobschild Sob	0 <maxnoof td="" –<=""><td></td></maxnoof>	
STrCh Source Statistics Descriptor STransport For DSCH Statistics Descriptor STransport Statistics Descriptor STransport Format Set Statistics Statistics		
Statistics Descriptor STransport Statistics Stati	 	
STransport For DSCH For DSCH For DSCH SAllocation/ Retention Priority O		
Format Set	For DSCH -	
S>Allocation		
Some content of the	-	
Priority Indicator >>BLER O - - >>PDSCH RL ID O RL ID - - >PDSCH RL ID - - - >PSCH ID - - PSCH ID - - YES - - PSCH Info -		
>PDSCH RL ID O RL ID — >Transport Format Combination Set O For DSCH — DSCH to add 01 YES >DSCH Info 1 <maxnoof dschs=""> — >DSCH ID M — >>DSCH S M — STCh Source Statistics Descriptor M — >Tomat Set — — >>Allocation/ Retention Priority M — >SAllocation/ Retention Priority M — >SCheduling Priority Indicator M — >BLER M — >PDSCH RL ID M RL ID >Transport Format Combination Set M For DSCH DSCHs to delete 01 YES >DSCH Info 1 — >>DSCH ID M — RL Information 0 — PSSDT Indication O 9.2.2.41 — >SSDT Cell Identity C- SSDTIndON —</maxnoof>		
STransport Format Combination Set		
DSCH to add		
DSCH Info	For DSCH –	
DSCH ID	01 YES rej	eject
Source		
>>TrCh Source Statistics Descriptor M - >>Transport Format Set M For DSCH - >>Allocation/ Retention Priority M - - >>Scheduling Priority Indicator M - - >>BLER PDSCH RL ID M RL ID - >PDSCH RL ID M RL ID For DSCH - STransport Format Combination Set M For DSCH - DSCHs to delete 01 YES >DSCH Info 1 <maxnoof DSCHs> - >>DSCH ID M - RL Information 0<maxnoof RLs> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator Diversity 9.2.2.50 -</maxnoof </maxnoof 		
Descriptor	-	
Format Set		
Retention Priority M -	For DSCH -	
>>Scheduling Priority Indicator M - >>BLER M RL ID >PDSCH RL ID M RL ID >Transport Format Combination Set M For DSCH DSCHs to delete 01 YES >DSCH Info 1 <maxnoof DSCHs> - >>DSCH ID M - RL Information 0<maxnoof RLs> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -</maxnoof </maxnoof 	-	
>>BLER M	-	
PDSCH RL ID M RL ID >Transport Format Combination Set M For DSCH DSCHs to delete 01 YES >DSCH Info 1 <maxnoof dschs=""> - >>DSCH ID M - RL Information 0<maxnoof rls=""> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -</maxnoof></maxnoof>		
>Transport Format Combination Set M For DSCH — DSCHs to delete 01 YES >DSCH Info 1 <maxnoof dschs=""> — >>DSCH ID M — RL Information 0<maxnoof rls=""> EACH >RL ID M 9.2.1.49 — >SSDT Indication O 9.2.2.41 — >SSDT Cell Identity C - SSDTIndON 9.2.2.40 — >Transmit Diversity Indicator C - Diversity 9.2.2.50 —</maxnoof></maxnoof>		
Combination Set 01 YES DSCHs to delete 01 YES >DSCH Info 1 <maxnoof dschs=""> - >>DSCH ID M - RL Information 0<maxnoof rls=""> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -</maxnoof></maxnoof>		
DSCHs to delete 01 YES >DSCH Info 1 - DSCHs> - - >DSCHs> - - PRL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -	FOLDSCH -	
>DSCH Info 1 <maxnoof dschs=""> - >>DSCH ID M - RL Information 0<maxnoof rls=""> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -</maxnoof></maxnoof>	01 YES rei	eject
>>DSCH ID M — RL Information 0 <maxnoof rls=""> EACH >RL ID M 9.2.1.49 — >SSDT Indication O 9.2.2.41 — >SSDT Cell Identity C - SSDTIndON 9.2.2.40 — >Transmit Diversity Indicator C - Diversity 9.2.2.50 —</maxnoof>	1 <maxnoof td="" –<=""><td>ا ا</td></maxnoof>	ا ا
RL Information 0 <maxnoof rls=""> EACH >RL ID M 9.2.1.49 - >SSDT Indication O 9.2.2.41 - >SSDT Cell Identity C - SSDTIndON 9.2.2.40 - >Transmit Diversity Indicator C - Diversity 9.2.2.50 -</maxnoof>	000102	
>RL ID M 9.2.1.49 — >SSDT Indication O 9.2.2.41 — >SSDT Cell Identity C - SSDTIndON 9.2.2.40 — >Transmit Diversity Indicator C - Diversity 9.2.2.50 —		eject
>SSDT Indication O 9.2.2.41 — >SSDT Cell Identity C - SSDTIndON 9.2.2.40 — >Transmit Diversity Indicator C - Diversity 9.2.2.50 —		
>SSDT Cell Identity C - SSDTIndON >Transmit Diversity Indicator C - Diversity 9.2.2.40 9.2.2.50 -		
SSDTIndON 9.2.2.50 — Indicator Diversity	9.2.2.40 –	
Indicator Diversity		
	sity	
Transmission Gap Pattern O YES Sequence Information		eject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
Diversity mode	This IE is present if <i>Diversity Mode</i> IE is present in <i>UL DPCH Information</i> group, unless it is equal to "none".

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLs for a UE.

9.1.11.2 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	M		9.2.1.59		-	10,000
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH to add		0 <maxno< td=""><td>0.22</td><td>For DCH</td><td>EACH</td><td>notify</td></maxno<>	0.22	For DCH	EACH	notify
02 00 m om to dud		ofCCTrCH s>		and USCH	271011	Houry
>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	М		9.2.1.40		_	
UL CCTrCH to modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М	0,			_	
>TFCS	Ö			For the UL.	_	
>TFCI Coding	0			1 01 110 02.	_	
>Puncture Limit	Ö				_	
UL CCTrCH to delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М				_	
DL CCTrCH to add		0 <maxno ofCCTrCH s></maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М	32	9.2.3.2		_	
>TFCS	M		9.2.1.63	For the DL.	_	
>TFCI Coding	M		9.2.3.11	1 01 410 52.	_	
>Puncture Limit	M		9.2.1.46		_	
>TPC CCTrCH List		1 to <maxnoc CTrCH></maxnoc 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2	provide ir e	-	
DL CCTrCH to modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	M				1	
>TFCS	0			For the DL.	_	
>TFCI Coding	0				_	
>Puncture Limit	0				_	
>TPC CCTrCH List		0 to <maxnoc CTrCH></maxnoc 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.3		-	
DL CCTrCH to delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М					
DCHs to Modify		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>UL FP Mode	0		9.2.1.67		_	
>ToAWS	0		9.2.1.58		_	
>ToAWE	0		9.2.1.57			
>DCH Specific Info		1 <maxno ofDCHs></maxno 			ı	
>>DCH ID	M		9.2.1.16		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Orthodity
>>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 >>Allocation/Retention	0		9.2.1.64	For the DL.	_	
>>Allocation/Retention Priority			9.2.1.1		_	
>>Frame Handling	0		9.2.1.29		_	
Priority						
DCHs to Add		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		_	
>UL FP Mode	M		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	M		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	M		9.2.1.64	For the UL.	_	
>>Transport Format Set	M		9.2.1.64	For the DL.	_	
>>BLER	M		9.2.1.3	For the UL.	_	
>>BLER	M		9.2.1.3	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		_	
DCHs to Delete	COOLDOIT	0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М	5.2 5. 102	9.2.1.16		_	
DSCHs to Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М				_	
>CCTrCH Id	0			DL CCTrCH in which the DSCH is mapped.	-	
>TrCh Source Statistics Descriptor	0					
>Transport Format Set	0				-	
>Allocation/Retention Priority	0					
>Scheduling Priority Indicator	0				_	
>BLER	0				_	
DSCHs to Add		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
		ofDSCHs>				
>DSCH ID	M					
>CCTrCH ld	M			DL CCTrCH in which the DSCH is mapped.	-	
>TrCh Source Statistics Descriptor	М					
>Transport Format Set	М					
>Allocation/Retention Priority	М					
>Scheduling Priority Indicator	М					
>BLER	М				-	
DSCHs to Delete		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М				_	
USCHs to Modify		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М				-	
>CCTrCH ld	0			UL CCTrCH in which the USCH is mapped.	1	
>TrCh Source Statistics Descriptor	0				_	
>Transport Format Set	0				_	
>Allocation/Retention Priority	0				-	
>Scheduling Priority Indicator	0				_	
>BLER	0				_	
>RB Info		1 to <maxnoof RB></maxnoof 		All Radio Bearers using this USCH	I	
>>RB Identity	M				_	
USCHs to Add		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	M				-	
>CCTrCH Id	M			UL CCTrCH in which the USCH is mapped.	ı	
>TrCh Source Statistics Descriptor	М				I	
>Transport Format Set	М				_	
>Allocation/Retention Priority	М				_	
>Scheduling Priority Indicator	M				_	
>BLER	M				_	
>RB Info		1 to <maxnoof RB></maxnoof 		All Radio Bearers using this USCH	-	
>>RB Identity	М				_	
USCHs to Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М				_	

Condition	Explanation
CoorDCH	This IE is present only this DCH is part of a set of coordinated DCHs
	(number of instances of DCH Specific Info is greater than 1)

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.
MaxnoofRBs	Maximum number of Radio Bearers for one UE.

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 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></maxno 			EACH	ignore
>RL ID	М		9.2.1.49		1	
>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 9.2.2.10		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10		-	
>Secondary CCPCH Info		01			_	
>>FDD S-CCPCH Offset	М		9.2.2.15	Corresponds	_	
				to: T _{S-CCPCH,k} , see ref. [8]		
>>DL Scrambling Code	М		9.2.2.8		_	
>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>TFCS	М		9.2.1.63	For the DL.	_	
>>Secondary CCPCH Slot Format	M		9.2.2.38		Г	
>>TFCI Presence	C - SlotFormat		9.2.1.55		-	
>>Multiplexing Position	М		9.2.2.26		_	
>>STTD Indicator	M		9.2.2.44		-	
>>FACH/PCH Information		1 <maxfac Hcount+1></maxfac 			_	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	-	
>>Scheduling Information		1			_	
>>>IB_SG_REP	M		9.2.2.21		_	
>>>Segment Information		1 <maxibse G></maxibse 			-	
>>>IB_SG_POS	M		9.2.2.20		_	
>Downlink Code Information		0 <maxno ofDLCode s></maxno 			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		_	
>>FDD DL Channelisation Code Number	М		9.2.2.14		-	
>>Transmission Gap Pattern Sequence Information Response	0				-	
>DCH Information		0 <maxno< td=""><td></td><td>Only one</td><td>GLOBAL</td><td>ignore</td></maxno<>		Only one	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Response		ofDCHs>		DCH per set of co- ordinated DCHs shall be included. The IE group		
				shall be included only once per DCH per set of combined RLs.		
>>DCH ID	M		9.2.1.16		_	
>>Binding ID	М		9.2.1.3		_	
>>Transport Layer Address	М		9.2.1.62		ı	
>DSCH to be Added or Modified		01			YES	ignore
>>DSCH Information		1 <maxnoof DSCHs></maxnoof 			I	
>>>DSCH ID	M				-	
>>>Priority Indicator		116		Provide Information for each priority class used	-	
>>>Scheduling Priority Indicator	М			DSCH priority indicator	1	
>>>MAC-c/sh SDU Length		1 <maxnb MAC- c/shSDUL ength></maxnb 			-	
>>>>MAC-c/sh SDU Length	М				-	
>>>Binding ID	М				-	
>>>Transport Layer Address	М				-	
>>PDSCH code mapping	М			PDSCH code mapping to be used	-	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal
	to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary
	CCPCH's
MaxIBSEG	Maximum number of segments for one Information
	Block

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		-	10,000
RL Information Response	IVI	01	0.2.1.00		YES	ignore
>RL ID	М	01	9.2.1.49		-	ignore
>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 9.2.2.10		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10		_	
>UL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 	0.2.2.10	For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH to be added		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		_	
>>>TDD DPCH	M		9.2.3.8A		_	
Offset	'*'		0.2.0.07			
>>>UL Timeslot Information		1 to <maxnooft S</maxnooft 			_	
>>>Time Slot	M		9.2.1.56		_	
>>>Midamble	M		9.2.3.4		_	
Shift and Burst Type			0.2.011			
>>>TFCI Presence	М		9.2.1.55		_	
>>>UL Code Information		1 to <maxnoofd PCH></maxnoofd 			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	
>>UL DPCH to be modified		01			YES	ignore
>>>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 to <maxnooft S</maxnooft 			_	
>>>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 to <maxnoofd PCH></maxnoofd 			_	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>UL DPCH to be deleted		0 <maxnoof DPCHs></maxnoof 	11010101100		GLOBAL	ignore
>>>DPCH ID	М				_	
>DL CCTrCH Information		0 <maxnoof CCTrCHs></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH to be added		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	M		9.2.3.6		1	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>DL Timeslot Information		0 to <maxnooft S</maxnooft 			-	
>>>>Time Slot	М		9.2.1.56		_	
>>>Midamble Shift and Burst Type	М		9.2.3.4		_	
>>>TFCI Presence	М		9.2.1.55		_	
>>>DL Code Information		0 to <maxnoofd PCH></maxnoofd 			-	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		-	
>>DL DPCH to be modifed		01			YES	ignore
>>>Repetition Period	0		9.2.3.7		_	
>>>Repetition Length	0		9.2.3.6		_	
>>>TDD DPCH Offset	0		9.2.3.8A		_	
>>>DL Timeslot Information		0 to <maxnooft S</maxnooft 			_	
>>>Time Slot	М		9.2.1.56		_	
>>>Midamble Shift and Burst Type	0		9.2.3.4		-	
>>>TFCI Presence	0		9.2.1.55		ı	
>>>DL Code Information		0 to <maxnoofd PCH></maxnoofd 			-	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		-	
>>DL DPCH to be deleted		0 <maxnoof DPCHs></maxnoof 			GLOBAL	ignore
>>>DPCH ID	М					
>DCH Information Response		0 <maxnoof DCHs></maxnoof 		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	М		9.2.1.16		_	
>>Binding ID	М		9.2.1.3		_	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Layer Address	М		9.2.1.62		_	
>DSCH to be Added or Modified		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	M				_	
>>Transport Format Management	М				_	
>>Priority Indicator		116		Provide Information for each priority class used	-	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	_	
>>>MAC-c/sh SDU Length		1 <maxnbm AC- c/shSDULen gth></maxnbm 			-	
>>>MAC-c/sh SDU Length	М				_	
>>Binding ID	М				_	
>>Transport Layer Address	M				_	
>USCH to be Added or Modified		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М				_	
>>Transport Format Management	М				_	
>>Binding ID	М				_	
>>Transport Layer Address	М				_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.
MaxnoofTS	Maximum number of Timeslots for a UE

9.1.13 RADIO LINK RECONFIGURATION COMMIT

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	M		9.2.1.59		_	
CFN	M		9.2.1.9		YES	ignore
Active Pattern Sequence Information	0				YES	ignore

9.1.14 RADIO LINK RECONFIGURATION FAILURE

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		_	
CHOICE cause level						
>General					YES	ignore
>>Cause	M		9.2.1.5		YES	ignore
> RL specific					YES	ignore
>>RLs Causing Reconfiguration Failure		0 <maxnoof RLs></maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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	M		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	

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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	М		9.2.1.40		YES	reject
Transaction ID	M		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.	_	•
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		9.2.1.33		_	
DCHs to Modify		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></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		_	
>>DRAC Control	0		9.2.2.13			
DCHs to add		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	M		9.2.1.16		_	
>>TrCh Source Statistics Descriptor	М		9.2.1.65		_	
>>Transport Format Set	M		9.2.1.64	For the UL.	_	
>>Transport Format Set	M		9.2.1.64	For the DL.	_	
>>BLER	M		9.2.1.3	For the UL.	_	
>>BLER	M		9.2.1.3	For the DL.	_	
>>Allocation/Retention Priority	М		9.2.1.1		-	
>>Frame Handling Priority	М		9.2.1.29		_	
>>QE-Selector	M		9.2.1.46A		_	
>>DRAC Control	M		9.2.2.13		-	
DCHs to Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	M		9.2.1.16			
Transmission Gap Pattern Sequence Information	0				YES	reject

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs 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		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 modify		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63		_	
UL CCTrCH Information to delete		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	M				_	
DL CCTrCH Information to modify		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	M		9.2.3.2		_	
>TFCS	M		9.2.1.63		_	
DL CCTrCH Information to delete		0 <maxnoof CCTrCHs></maxnoof 			EACH	notify
>CCTrCH ID	M				_	
DCHs to Modify		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxnoof DCHs></maxnoof 			_	
>>DCH ID	M		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		_	
DCHs to Add		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		-	
>UL FP Mode	M		9.2.1.67		_	
>ToAWS	M		9.2.1.58		_	
>ToAWE	M		9.2.1.57		_	
>DCH Specific Info		1 <maxnoof DCHs></maxnoof 			_	
>>DCH ID	M		9.2.1.16		_	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		_	
>>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	_	
>>Transport Format Set	М		9.2.1.64	For the UL.	-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Format Set	M		9.2.1.64	For the DL.	_	
>>BLER	M		9.2.1.3	For the UL.	_	
>>BLER	M		9.2.1.3	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		_	
DCHs to Delete		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>DCH ID	M		9.2.1.16		_	

Condition	Explanation
CoorDCH	This IE is present only this DCH is part of a set of coordinated DCHs
	(number of instances of DCH Specific Info is greater than 1)

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
Managa Tuna	M		Reference		YES	roject
Message Type Transaction ID	M		9.2.1.40 9.2.1.59		YES	reject
RL Information Response	IVI	0 <maxno< td=""><td>9.2.1.59</td><td></td><td>EACH</td><td>ignore</td></maxno<>	9.2.1.59		EACH	ignore
KL IIIIOIIIIauoii Kespoiise		ofRLs>			EAGIT	ignore
>RL ID	M		9.2.1.49		ı	
>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 9.2.2.10		_	
>Minimum DL TX Power	0		DL Power 9.2.2.10		_	
>Secondary CCPCH Info		01			_	
>>FDD S-CCPCH Offset	М		9.2.2.15	Corresponds	_	
				to: τ _{S-CCPCH,k} , see ref. [8]		
>>DL Scrambling Code	M		9.2.2.8		-	
>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>TFCS	М		9.2.1.63	For the DL.	_	
>>Secondary CCPCH	M		9.2.2.38		_	
Slot Format						
>>TFCI Presence	C - SlotFormat		9.2.1.55		-	
>>Multiplexing Position	М		9.2.2.26		_	
>>STTD Indicator	M		9.2.2.44		_	
>>FACH/PCH Information		1 <maxfac< td=""><td></td><td></td><td>_</td><td></td></maxfac<>			_	
		Hcount+1>				
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	-	
>>Scheduling Information		1			_	
>>>IB_SG_REP	M		9.2.2.21		_	
>>>Segment	141	1	V. Z. Z. Z I		_	
Information		<maxibse G></maxibse 				
>>>IB_SG_POS	М		9.2.2.20		_	
>DCH Information Response		0 <maxno ofDCHs></maxno 		Only one DCH per set of co- ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>DCH ID	М		9.2.1.16		_	
>>Binding ID	М		9.2.1.3		_	
>>Transport Layer Address	М		9.2.1.62		_	
>DL Code Information		0 <maxnoof DLCodes</maxnoof 			GLOBAL	ignore
>>DL Scrambling Code	М				_	
>>FDD DL Channelisation Code Number	M				-	
>>Transmission Gap Pattern Sequence Information Response	М				_	
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation		
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is		
	equal to any of the value 8 to 17		

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

9.1.18 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	description		Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
CHOICE Reporting Object	M			Object for which the Failure shall be reported.	YES	ignore
>"RL"					YES	ignore
>>RL Information	М	1 <maxnoofrl s></maxnoofrl 			EACH	ignore
>>>RL ID	M		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>"RL Set"					YES	ignore
>>RL Set Information		1 <maxnoofrl Sets></maxnoofrl 			EACH	ignore
>>>RL Set ID	M		9.2.2.35		_	
>>>Cause	M		9.2.1.5		_	

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofRLSets	Maximum number of RL Sets for one UE.

9.1.19 RADIO LINK RESTORE 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		_	
CHOICE Reporting Object	М			Object for which the Restoration shall be reported.	YES	ignore
>"RL"					YES	ignore
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	M		9.2.1.49		_	
>"RL Set"					YES	ignore
>>RL Set Information		1 <maxno ofRLSet s></maxno 			EACH	ignore
>>>RL Set ID	M		9.2.2.35		_	

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofRLSets	Maximum number of RL Sets for one UE.

9.1.20 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
_			reference			
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
Power Adjustment Type	M		9.2.2.28		YES	ignore
DL Reference Power	C- Common		DL Power 9.2.2.10		YES	ignore
DL Reference Power Information	C- Individual	1 <maxnoo fRLs></maxnoo 			GLOBAL	ignore
>RL ID	M		9.2.1.49		_	
>DL Reference Power	М		DL Power 9.2.2.10		_	
Max Adjustment Step	C- CommonO rIndividual		9.2.2.23		YES	ignore
Adjustment Period	C- CommonO rIndividual		9.2.2.22		YES	ignore
Adjustment Ratio	C- CommonO rIndividual				YES	ignore

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals 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	Semantics description	Criticality	Assigned Criticality
			reference			
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		ı	
RL Information		1			YES	reject
>RL ID	M		9.2.1.49		-	
>DL Code Information		1			GLOBAL	notify
		<maxnoof< td=""><td></td><td></td><td></td><td></td></maxnoof<>				
		DLCodes>				
>>DL Scrambling Code	M		9.2.2.11		_	
>>FDD DL Channelisation	M		9.2.2.14		-	
Code Number						

Range bound	Explanation
MaxnoofDLcodes	Maximum number of DL codes for one UE

9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	description		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		1			GLOBAL	reject
		<maxnoof CCTrCHs></maxnoof 				,
>>CCTrCH ID	М		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 to <maxnoof TS</maxnoof 			_	
>>>>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		0 to			_	
Information		<maxnoof DPCH></maxnoof 				
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	
>DL CCTrCH Information		1 <maxno ofCCTrCH s></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		_	
>>>DL Timeslot Information		0 to <maxnoof TS</maxnoof 			_	
>>>>Time Slot	М		9.2.1.56		_	
>>>Midamble Shift and Burst Type	0		9.2.3.4		_	
>>>TFCI Presence	0		9.2.1.55		_	
>>>DL Code Information		0 to <maxnoof DPCH></maxnoof 			-	
>>>>DPCH ID	М		9.2.3.3		_	
>>>>TDD Channelisation Code	М		9.2.3.8		_	

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
MaxnoofTS	Maximum number of Timeslots for a UE

9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

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	M		9.2.1.59		_	
CFN	M		9.2.1.9		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	rignore

9.1.23 PHYSICAL CHANNEL RECONFIGURATION FAILURE

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	M		9.2.1.59		_	
Cause	M		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 reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		-	ignore
UC-Id	M		9.2.1.71		YES	ignore
SAI	M		9.2.1.52		YES	ignore
Cell GAI	0		9.2.1.32		YES	Ignore
C-RNTI	M		9.2.1.14		YES	ignore
S-RNTI	M		9.2.1.54		YES	ignore
D-RNTI	O		9.2.1.24		YES	ignore
STTD Support Indicator	M		9.2.2.45		YES	Ignore
Closed Loop Mode1 Support	M		9.2.2.2		YES	Ignore
Indicator	IVI		9.2.2.2		123	ignore
Closed Loop Mode2 Support	M		9.2.2.3		YES	Ignore
Indicator	M		9.2.1.32		YES	ignoro
L3 Information	O					ignore
CN PS Domain Identifier			9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
URA ID	M		9.2.1.70		YES	ignore
Multiple URAs Indicator	M		9.2.1.41		YES	ignore
RNCs with Cells in the		0			GLOBAL	ignore
Accessed URA		<maxrn< td=""><td></td><td></td><td></td><td></td></maxrn<>				
		CinURA-				
		1>				
>RNC-Id	M		9.2.1.50		_	

Range bound	Explanation				
MaxRNCinURA	Maximum number of RNC in one URA				

9.1.24.2 TDD Message

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		-	
UC-Id	M		9.2.1.71		YES	ignore
SAI	M		9.2.1.52		YES	ignore
Cell GAI	0				YES	Ignore
C-RNTI	M		9.2.1.14		YES	ignore
S-RNTI	M		9.2.1.54		YES	ignore
D-RNTI	0		9.2.1.24		YES	ignore
L3 Information	M		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 ID	M		9.2.1.70		YES	ignore
Multiple URAs Indicator	M		9.2.1.41		YES	ignore
RNCs with Cells in the Accessed URA		0 <maxrn CinURA- 1></maxrn 			GLOBAL	ignore
>RNC-ld	М		9.2.1.50		_	

Range bound	Explanation			
MaxRNCinURA	Maximum number of RNC in one URA			

9.1.25 DOWNLINK SIGNALLING TRANSFER REQUEST

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	М		9.2.1.59		_	
C-Id	M		9.2.1.6		YES	ignore
D-RNTI	М		9.2.1.24		YES	ignore
L3 Information	М		9.2.1.32		YES	ignore
D-RNTI Release Indication	M		9.2.1.25		YES	ignore

9.1.26 RELOCATION COMMIT

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		_	
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	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
CHOICE paging area					YES	ignore
>"URA"					YES	ignore
>>URA-ID	М		9.2.1.70		_	
>"Cell"					YES	ignore
>>C-ld	M		9.2.1.6		_	
SRNC-Id	М		RNC-ld 9.2.1.50		YES	ignore
S-RNTI	M		9.2.1.53		YES	ignore
IMSI	М		9.2.1.31		_	
DRX Cycle Length Coefficient	M		9.2.1.26		YES	ignore

9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
Measurement Id	M		9.2.1.37		YES	reject
Dedicated Measurement Object Type	М		9.2.1.17		YES	reject
CHOICE Dedicated Measurement Object Type					YES	ignore
>"RL"					YES	reject
>>RL Information		1 <maxn oofRLs></maxn 			EACH	reject
>>>RL-ID	M		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	ı	
>"RLS"				FDD only	YES	reject
>>RL Set Information		1 <maxn oofRLSet s></maxn 			EACH	reject
>>>RL-Set-ID	M		9.2.2.35		1	
Dedicated Measurement Type	M		9.2.1.18		YES	reject
Measurement Filter Coefficient	0		9.2.1.36		YES	reject
Report Characteristics	M		9.2.1.48		YES	reject

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	M		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59	Are both transaction id and Measuremen tid needed?	-	
Measurement Id	M		9.2.1.37		YES	ignore
CHOICE Dedicated Measurement Object Type	0			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1 <maxno ofRLs></maxno 			EACH	ignore
>>>RL ID	M		9.2.1.49		_	
>>>DPCH ID	0		9.2.3.3	TDD only	_	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
>"RLS" or "ALL RLS"				FDD only	YES	ignore
>>RL Set Information		1 <maxno ofRLSets></maxno 			EACH	ignore
>>>RL Set ID	M		9.2.2.35		-	
>>>Dedicated Measurement Value	М		9.2.1.19		_	
CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	YES	ignore
Criticality Diagnostics	0		9.2.1.13		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.				

9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

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		-	
Measurement Id	M		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	Description		Ontiounty
Message Type	М		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	9
Measurement Id	М		9.2.1.37		YES	ignore
CHOICE Dedicated				Dedicated	YES	ignore
Measurement Object Type				Measurement		
				Object Type		
				the		
				measurement		
				was initiated		
				with	\/=0	
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1 <maxnoo fRLs></maxnoo 			EACH	ignore
>>>RL-ID	M		9.2.1.49		ı	
>>>DPCH ID	0		9.2.3.3	TDD only	1	
>>>CHOICE						
Measurement						
Availability Indicator						
>>>"Measurement					YES	ignore
Available"						
>>>> Dedicated	M		9.2.1.19		_	
Measurement Value					\/50	
>>>"Measurement		NULL			YES	ignore
not Available" >"RLS" or "ALL RLS"				EDD only	YES	ianoro
>>RLS OF ALL RLS >>RL Set Information		1 <maxnoo< td=""><td></td><td>FDD only</td><td></td><td>ignore</td></maxnoo<>		FDD only		ignore
		fRLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		_	
>>>CHOICE						
Measurement						
Availability Indicator					\/=0	
>>>"Measurement Available"					YES	ignore
>>>> Dedicated	М		9.2.1.19		1	
Measurement Value						
>>>"Measurement		NULL				
not Available"						
CFN	0		9.2.1.9	Dedicated Measuremen t Time Reference	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.

9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

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		_	
Measurement Id	M		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	M		9.2.1.40		YES	ignore
Transaction ID	М		9.2.1.59		_	
Measurement Id	M		9.2.1.37		YES	ignore
Cause	М		9.2.1.5		YES	ignore

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	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
D-RNTI	M		9.2.1.24		YES	ignore
C-RNTI	0		9.2.1.14	Release of an individual C-RNTI.	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	M		9.2.1.59		-	
D-RNTI	M		9.2.1.25		YES	reject
C-ID	0				YES	reject
Transport Bearer Request Indicator	M		9.2.1.61	Request a new transport bearer or to use an existing bearer for the user plane.	YES	reject
Transport Bearer ID	M		9.2.1.60	Indicates the lur transport bearer to be used for the user plane.	YES	reject

9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

9.1.36.1 FDD 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	M		9.2.1.59		1	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	0				YES	ignore
FACH Info for UE Selected S-CCPCH		01			YES	ignore
>Priority Indicator & Initial Window Size		116		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		-	
>>MAC-c/sh SDU Length		1 <maxnoo fMACcshS DUlengthsp erPriority></maxnoo 			GLOBAL	ignore
>>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>>FACH Initial Window Size	М		9.2.1.27		_	
FACH Info for DRNC Selected S-CCPCH		01			YES	ignore
>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds	-	
				to: T _{S-CCPCH,k} , see ref. [7]		
>DL Scrambling Code	M		9.2.2.8		ı	
>FDD DL Channelisation Code Number	М		9.2.2.14		I	
>TFCS	M		9.2.1.63	For the DL.	1	
>Secondary CCPCH Slot Format	М		9.2.2.38		_	
>Multiplexing Position	M		9.2.2.26		-	
>STTD Indicator	M		9.2.2.44		ı	
>Priority Indicator & Initial Window Size		116		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	М		Scheduling Priority Indicator 9.2.1.28		-	
>>MAC-c/sh SDU Length		1 <maxnoo fMACcshS DUIengthsp erPriority></maxnoo 			GLOBAL	ignore
>>>MAC-c/sh SDU Length	М		9.2.1.34		ı	
>>FACH Initial Window Size	М		9.2.1.27		_	
RACH Info for DRNC Selected PRACH		01			YES	ignore
>Preamble Signatures	М				_	
>RACH Minimum Spreading Factor	М				_	
>Scrambling Code	M				-	

Number					
>Puncture Limit	M			_	
>RACH Sub channel Numbers	М			ı	
URA ID	0			YES	ignore
Multiple URAs Indicator	0			YES	ignore
RNCs with Cells in the Accessed URA		0 <maxrnci nURA-1></maxrnci 		GLOBAL	ignore
>RNC-Id	M			_	
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

Range Bound	Explanation
MaxnoofMACcshSDUlengthsperPriority	Maximum number of different MAC-c/sh SDU
	Lengths.
MaxRNCinURA	Maximum number of RNC in one URA.

9.1.36.2 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	M		9.2.1.59		-	reject
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	O		0.2.1.00		YES	ignore
FACH Info for UE Selected S-CCPCHs		1			YES	ignore
>Priority Indicator & Initial Window Size		1 16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		_	
>>MAC-c/sh SDU Length		1< MaxnoofM ACcshSDU lengthsper Priority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>>FACH Initial Window Size	М		9.2.1.27		_	
FACH Info for DRNC Selected group of S- CCPCHs		01			YES	ignore
>TFCS	M		9.2.1.63	For DL CCTrCH supporting several Secondary CCPCHs	-	
>Secondary CCPCH	M	1 <maxnoofs CCPCHs></maxnoofs 			GLOBAL	ignore
>>TDD Channelisation Code	М		9.2.2.8		_	
>>Time Slot	M		9.2.1.56		_	
>>Midamble shift and Burst Type	M		9.2.3.4		_	
>>TDD Physical Channel Offset	M		9.2.3.9		_	
>>Repetition Period	M		9.2.3.7		_	
>>Repetition Length	M		9.2.3.6	_	_	
>>Priority Indicator & Initial Window Size		116		Provide Information for each priority class used	GLOBAL	ignore
>>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		_	
>>>MAC-c/sh SDU Length		1< MaxnoofM ACcshSDU lengthsper Priority>			GLOBAL	ignore
>>>>MAC-c/sh SDU Length	М		9.2.1.34		_	
>>>FACH Initial	М		9.2.1.27			

Window Size					
RACH Info for DRNC		01		YES	ignore
Selected PRACH					_
>TDD Channelisation	M			-	
Code					
>Time Slot	M			-	
>PRACH Midamble	0			-	
URA ID	0			YES	ignore
Multiple URAs Indicator	0			YES	ignore
RNCs with Cells in the		0		GLOBAL	ignore
Accessed URA		<maxrnci< td=""><td></td><td></td><td></td></maxrnci<>			
		nURA-1>			
>RNC-Id	M			-	
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

Range Bound	Explanation
MaxnoofMSCcshSDUlengthsperPriority	Maximum number of different MAC-c/sh SDU
	Lengths.
MaxnoofSCCPCHs	TBD
MaxRNCinURA	Maximum number of RNC in one URA.

9.1.37 COMMON TRANSPORT CHANNEL RESOURCES FAILURE

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	docompaion		Orthoding
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
Cause	M		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	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
Active Pattern Sequence Information	M				YES	ignore

9.1.39 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		_	
Cause	C_ifalone		9.2.1.5		YES	ignore
Criticality Diagnostics	C_ifalone	•	9.2.1.13		YES	ignore

Condition	Explanation
C_ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be
	present.

9.2 Information Element Functional Definition and Contents

9.2.0 General

Section 9.2 presents the RNSAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in section 9.3. In case there is contradiction between the tabular format in section 9.2 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Allocation/Retention Priority			Frame	
-			Handling	
			Priority	

9.2.1.2 Allowed Queuing Time

This parameter specifies the maximum queuing time that is allowed in the DRNS. The default value is no queuing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Allowed Queuing Time			INTEGER(0.	Seconds
			.60)	

9.2.1.3 Binding ID

The Binding ID is the identifier of a user data stream. It is allocated at the DRNS and it is unique for each transport bearer under establishment to/from the DRNS. The length of this parameter is variable.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Binding ID			Octetstring	
			(14,)	

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

9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE cause group				
>Radio Network Layer				
>>Radio Network Layer Cause	M		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 NotAvailable, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not elapsed, Number of DL Codes Not Supported, DCH not Supported, USCH not Supported, USCH not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, CM not Supported, Transaction not Supported by Destination Node B,)	
>Transport Layer				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified,)	
>Protocol				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, 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	1.4		ENHANCEDATED	
>>Miscellaneous Cause	М		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,)	

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 Coordinates		1 <maxnoofpoints></maxnoofpoints>		
>>Latitude Sign	М		ENUMERAT ED (North, South)	
>>Degrees of Latitude	M		INTEGER (02 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²³ X /90 < N+1 X being the latitude in degree (0° 90°)
>>Degrees of Longitude	М		INTEGER (-2 ²³ 2 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²⁴ X /360 < N+1 X being the longitude in degree (-180°+180°)

Range bound	Explanation
maxnoofPoints	Maximum no. of points in polygon.

9.2.1.6 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 P-CPICH[FDD]/ P-CCPCH[TDD], before the measurement takes place. This allows operators to easily monitor specific cell, as well as other uses. The offset can be positive or negative, so the measured results can be reported as better than, or worse than what it really is.

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 Code Groups, Scrambling Codes, Midambles and Toffset (see table 9 of ref. [13]).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Parameter ID			INTEGER (0127,)	

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
CN CS Domain Identifier				
>PLMN Id	M		OCTET STRING (3)	- digits 0 to 9, two digits per octet, - each digit encoded 0000 to 1001, - 1111 used as filler - bit 4 to 1 of octet n encoding digit 2n-1 - bit 8 to 5 of octet n encoding digit 2n -The PLMN-ID consists 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 a 3 digit MNC).
>LAC	М		OCTET STRING (2)	0000 and FFFE not allowed

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
CN CS Domain Identifier			reference	
>PLMN Id	M		OCTET STRING (3)	- digits 0 to 9, two digits per octet, - each digit encoded 0000 to 1001, - 1111 used as filler - bit 4 to 1 of octet n encoding digit 2n-1 - bit 8 to 5 of octet n encoding digit 2n -The PLMN-ID consists 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 a 3 digit MNC).
>LAC	М		OCTET STRING (2)	0000 and FFFE not allowed
>RAC	М		OCTET STRING (1)	

9.2.1.13 Criticality Diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
>Procedure ID		01		
>>Procedure Code	M		INTEGER (0255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
>>Ddmode	M		ENUMERAT ED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Triggering Message	0		ENUMERAT ED(initiating message, successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
>Criticality Response	0		ENUMERAT ED(reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
>Transaction ID	0		Transaction ID	,
Information Element Criticality Diagnostics		1 <maxnoof errors=""></maxnoof>		
>Criticality Response	M		ENUMERAT ED(reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'Ignore' shall never be used.
>IE ld	М		INTEGER (065535)	The IE Id of the not understood or missing IE as defined in the ASN.1 part of the specification.
>Repetition Number	0		INTEGER (1256)	The repetition number of the not understood IE if applicable

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)	

9.2.1.15 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)	

9.2.1.17 Dedicated Measurement Object Type

The Dedicated Measurement Object type indicates the type of object that the measurement is to be performed on.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Object Type			ENUMERAT ED (RL,	
			RLS, ALL RL,	
			ALL RLS,)	

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
			Reference	
Dedicated Measurement			ENUMERAT	RSCP, Rx Timing Deviation
Type			ED (SIR,	are used by TDD only,
			SIR Error,	Round Trip Time, SIR Error
			Transmitted	are used by FDD only.
			Code Power,	
			RSCP, Rx	
			Timing	
			Deviation,	
			Round Trip	
			Time,)	

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
Dedicated measurement Value				
>SIR Value	C MeasValue		INTEGER(063)	According to mapping in ref. [23] and [24]
>SIR Error Value	C MeasValue		INTEGER(0125)	According to mapping in [23], (FDD only)
>Transmitted Code Power Value	C MeasValue		INTEGER(0127)	According to mapping in ref. [23] and [24]
>RSCP	C MeasValue		INTEGER(081)	According to mapping in ref. [24] (TDD only)
>Rx Timing Deviation	C MeasValue		INTEGER(02047)	According to mapping in [24] [TDD only]
>Round Trip Time	C MeasValue		INTEGER(08191)	According to mapping in [23] [FDD only]

Condition	Explanation
MeasValue	Only one measurement value can be present at the same time.

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Indication			ENUMERAT ED (Combined, Not Combined)	

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 (-1010)	Unit dB Granularity 1 dB.

The Diversity Indication indicates if the RL has been or has not been combined with another RL.

9.2.1.24 D-RNTI

D-RNTI is the UE context identifier in the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D-RNTI			Integer(02^ 20 -1)	

9.2.1.25 D-RNTI Release Indication

The D-RNTI Release Indication indicates whether or not a CRNC 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 Coefficient			Integer	Refers to 'k' in the formula as
Coefficient			(2,, 12)	specified in ref. [15], Discontinuous Reception.

9.2.1.26A 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)	

9.2.1.27 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 Name	Presence	Range	IE type and reference	Semantics description
FACH Initial Window Size			INTEGER (0255)	Number of frames (MAC-c/sh SDUs.) 255 = Unlimited number of FACH data frames.

9.2.1.28 FACH Priority Indicator

Void

9.2.1.29 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH/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	0=Lowest Priority,
			(015)	
				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	Frames
			(0255)	

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

9.2.1.32 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 CRNC, 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.

9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, 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 (15000)	Size of the MAC-c/sh SDU in number of bits.

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 Power			INTEGER (- 50+33)	dBm

9.2.1.35A Measurement Availability Indicator

Indicates if measurement is available or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Availability Indicator			ENUMERATE D(measureme nt available, measurement not available)	

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 Coefficient	M		ENUMERAT ED(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,)	

9.2.1.37 Measurement ID

The Measurement Id uniquely identifies any measurement on dedicated resources requested over RNSAP.

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.

Information Element / Group	Presence	Range	IE Type and	Semantics Description
Name			Reference	
SIR	C –		INTEGER(0.	0: 0 dB
	Threshold		.62)	1: 0.5 dB
				2: 1 dB
				62: 31dB
SIR Error	C-		INTEGER(0.	0: 0 dB
	Threshold		.124)	1: 0.5 dB
			,	2: 1 dB
				124: 62 dB
				(FDD only)
Transmitted Code Power	C -		INTEGER(0.	0: 0 dB
Transmitted Code Forter	Threshold		.112,)	1: 0.5 dB
	- Thi Gonord		,,	2: 1 dB
				 112: 56 dB
RSCP	C -		INTEGER(0.	0: 0 dB
	Threshold		.80)	1: 0.5 dB
			.00)	2: 1 dB
				80: 40dB
				(TDD only)
Round Trip Time	C -		INTEGER(0.	0: 0 chips
Tround Trip Time	Threshold		.8190)	1: 0.25 chips
			.0100)	2: 0.5 chips
				2. 0.0 0111p3
				8190: 2047.5 chips
				(FDD only)
		1		(LDD Olliy)

Condition	Explanation
Threshold	Only one measurement threshold can be present at the same time.

9.2.1.39 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E or F.

Information Element / Group	Presence	Range	IE Type and	Semantics Description
Name			Reference	-
SIR	C –		INTEGER(0.	According to mapping in ref. [23]
	Threshold		.63)	and [24].
SIR Error	C -		INTEGER(0.	According to mapping in [23],
	Threshold		.125)	(FDD only)
Transmitted Code Power	C –		INTEGER(0.	According to mapping in ref. [23]
	Threshold		.127)	and [24].
RSCP	C -		INTEGER(0.	According to mapping in ref. [24]
	Threshold		.81)	(TDD only)
Rx Timing Deviation	C -		INTEGER(0.	According to mapping in [24]
-	Threshold		.2047)	(TDD only)
Round Trip Time	C -		INTEGER(0.	According to mapping in [23]
	Threshold		.8191)	(FDD only)

Condition	Explanation
Threshold	Only one measurement threshold can be present at the same time.

9.2.1.40 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Type				
>Procedure ID		1		
>>Procedure Code	M		ENUMERATED (RL Setup, RL Addition, RL Deletion, Synchronised RL Reconfiguration Preparation, Synchronised RL Reconfiguration Commit, Synchronised RL Reconfiguration Cancel, Unsynchronised RL Reconfiguration Request, RL Failure, RL Restoration, DL Power Control, Physical Channel Reconfiguration, UL Signalling Transfer, DL Signalling Transfer, Relocation Commit, Paging, Measurement Initiation, Measurement Reporting, Measurement Termination, Measurement Failure, Common Transport Channel Resources Initiation, Common Transport Channel Resources Release, Compressed Mode Command, Error Indication,)	
>>Ddmode	М		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	М		ENUMERATED (Initiating 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			Enumerated (Multiple URA s exist, Single URA Exists)	

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	Semantics description
			reference	
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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH Power			INTEGER(- 1540,)	Unit dBm Granularity 0.1 dB.

9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the P-CPICH in a cell. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH Power			ENUMERAT ED (-1050)	Unit dBm Granularity 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)	

9.2.1.46 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%

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	Semantics description
			reference	
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 Information			Bit String	The contents is defined in ref. [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
Report Characteristics	†			
>Report Characteristics type			ENUMERAT ED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F,)	
>Periodic Report Information	C – Periodic			
>>Report Periodicity	M		ENUMERAT ED (10ms1min,) step 10ms, (1min1hr,	The periodicity with which the DRNS shall send measurement reports. First working assumption!
>Event A	C – Event) step 1min,	
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1min,) step 10ms,	
>Event B	C – Event B		,	
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1min,) step 10ms,	
>Event C	C – Event		10110,	
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decr ease Threshold	
>>Measurement Change Time	M		ENUMERAT ED (10ms1min,) step 10ms,	The time within which the measurement entity shall rise, in order to trigger a measurement report.
>Event D	C – Event D			
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decr ease Threshold	
>>Measurement Change Time	M		ENUMERAT ED (10ms1min,) step 10ms,	The time within which the measurement entity shall fall, in order to trigger a measurement report.
>Event E	C – Event E			
>>Measurement	М		Measurement	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Threshold 1			Threshold	
>>Measurement	0		Measurement	
Threshold 2			Threshold	
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1min,) step 10ms,	The hysteresis time in ms
>>Report Periodicity	0		ENUMERAT ED (10ms1min,) step 10ms, (1min1hr,) step 1min,	The periodicity with which the DRNS shall send measurement reports.
>Event F	C – Event F			
>>Measurement Threshold 1	M		Measurement Threshold	
>>Measurement Threshold 2	0		Measurement Threshold	
>>Measurement Hysteresis Time	0		ENUMERAT ED (10ms1min,) step 10ms,	The hysteresis time in ms
>>Report Periodicity	0		ENUMERAT ED (10ms1min,) step 10ms, (1min1hr,) step 1min,	The periodicity with which the DRNS shall send measurement reports.

Condition	Explanation
C-Periodic	Valid if Report Characteristics Type IE indicates "periodic"
C-Event A	Valid if Report Characteristics Type IE indicates "Event A"
C-Event B	Valid if Report Characteristics Type IE indicates "Event B"
C-Event C	Valid if Report Characteristics Type IE indicates "Event C"
C-Event D	Valid if Report Characteristics Type IE indicates "Event D"
C-Event E	Valid if Report Characteristics Type IE indicates "Event E"
C-Event F	Valid if Report Characteristics Type IE indicates "Event F"

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)	

9.2.1.50 RNC-ld

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
>RNC-Id			INTEGER	
			(04095)	

9.2.1.51 SCH Time Slot

The SCH Time Slot is only applicable if the value of *Sync Case* IE is Case 2.

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 DSCH or USCH data frame. Used by the DRNC when scheduling DSCH or USCH traffic.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scheduling Priority Indicator			INTEGER (015)	Relative priority of the DSCH or USCH data frame: 0=Lowest Priority 15=Highest Priority

9.2.1.52 Service Area Identifier (SAI)

This information element is used to uniquely 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SAI				
>PLMN Id	M		OCTET STRING (3)	- digits 0 to 9, two digits per octet, - each digit encoded 0000 to 1001, - 1111 used as filler - bit 4 to 1 of octet n encoding digit 2n-1 - bit 8 to 5 of octet n encoding digit 2n -The PLMN-ID consists 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 a 3 digit MNC).
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
>SAC	М		OCTET STRING (2)	

9.2.1.53 S-RNTI

S-RNTI identifies the UE in the SRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S-RNTI			Integer(02^ 20 -1)	

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

Presence	Range	IE type and reference	Semantics description
		INTEGER	
			reference

9.2.1.55 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. In TDD if it is present in the timeslot it will be included within the first DPCH listed.

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)	

9.2.1.57 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 ToAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ToAWE			INTEGER (02559)	msec.

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	msec.
			(01279)	

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
Transaction ID			CHOICE INTEGER (0127) or INTEGER (032767)	

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 (04095)	

9.2.1.61 Transport Bearer Request Indicator

Indicates whether an Iur transport bearer needs to be established for carrying the FACH data stream(s), or whether an existing transport bearer will be used.

IE/Group Name	Presence	Mult	IE type and reference	Semantics description
Transport Bearer Request			ENUMRATE	
Indicator			D(Bearer	
			Requested,	
			Bearer not	
			Requested)	

9.2.1.62 Transport Layer Address

Transport Layer Address defines the transport address of the DRNS. 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(1 160,)	

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 for DL Transport Channels.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of

two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC: Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)]

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE DSCH				
>No split in TFCI				This choice is made if: a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 to <maxnooftfcs></maxnooftfcs>		The first instance of the parameter corresponds to TFC zero, the second to 1
>>>CTFC	М		INTEGER(0. .MaxCTFC)	and so on. Integer number calculated according to ref. [16].
>>>CHOICE Gain Factors	C- PhysChan		,	
>>>Signalled Gain Factors				
>>>>Gain Factor βc	М		Integer (015)	For UL DPCCH or control part of PRACH in FDD ref. [21].
>>>>Gain Factor β _D	М		Integer (015)	For UL DPDCH or data part of PRACH in FDD ref. [21].
>>>>Reference	0		Integer (015)	If this TFC is a reference TFC, this IE indicates the reference number
>>>Computed Gain Factors				
>>>>Reference TFC nr	M		Integer (015)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>There is a split in the TFCI				This choice is made if: a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels
>>Transport format combination_DCH		1 to <maxtfci_1_co mbs></maxtfci_1_co 		The first instance of the parameter <i>Transport format combination_DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	М		Integer(0M axCTFC)	Integer number calculated according to [16] . The calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling method				
>>>TFC manning	-	146		
>>>>TFC mapping on DSCH		1 to <maxnotfcigrou ps></maxnotfcigrou 		
>>>>Max TFCI(field2) value	М		Integer(110 23)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field	М		Integer(0M	Integer number calculated

2)			axCTFC)	according to [16] The calculation of CTFC ignores any DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport format combination_DSC H		1 to <maxtfci_2_co mbs></maxtfci_2_co 		The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field 2)	М		Integer(0M axCTFC)	Integer number calculated according to [16]. The calculation of CTFC ignores any DCH transport channels which may be assigned

Condition	Explanation	
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH or	
	PRACH channel in FDD, not when the TFCS is used for other	
	physical channels.	

Range bound	Explanation
MaxnoofTFCs	The maximum number of Transport Format Combinations.
MaxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2
	raised to the power of the length of the TFCI (field 1))
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2
	raised to the power of the length of the TFCI (field 2))
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a
	range of TFCI(field 2) values for which a single value of
	CTFC(field2) applies
MaxCTFC	Maximum number of the CTFC value is calculated according to
	the following:
	$\sum (L_i - 1)P_i$
	i=1
	with the notation according to ref. [16].

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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
>Dynamic Transport Format Information		1 <maxtfcount></maxtfcount>		
>>Number of Transport blocks	М		INTEGER (0512)	
>>Transport Block Size	C - Blocks		INTEGER (05000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission Time Interval	C- TTldynamic	1 <maxttlcount></maxttlcount>	Enumerated(10, 20, 40, 80,)	
>Semi-static Transport Format Information			, ,	
>>Transmission Time Interval	C- TTIsemistati c		ENUMERAT ED (10, 20, 40, 80,)	msec
>>Type of Channel Coding	M		ENUMERAT ED (No coding, Convolutiona I, Turbo,)	
>>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				
>>>2 nd Interleaving Mode	М		Enumerated (Frame related, Timeslot related,)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater
	than 0.
Coding	This IE is only present if IE "Type of channel coding" is
	"Convolutional" or "Turbo"
TTIdynamic	This IE is mandatory if not defined as semistatic parameter.
	Otherwise it is absent.
TTIsemistatic	This IE is mandatory if not defined as dynamic parameter.
	Otherwise it is absent.

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 attrib			
	for a transport channel.			
MaxTTlcount	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	Semantics description
			reference	
TrCh Source Statistics			ENUMERAT	'Speech' = Statistics of the
Descriptor			ED (speech,	data corresponds to speech.
			RRC,	'RRC' = Statistics of the data
			unknown,	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	Corresponds to: 0.0Hz
			(016383,	3276.6MHz
)	see ref. [6] and ref [7].

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

9.2.1.69 Uplink SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink SIR			ENUMERAT	Step 0.1 dB
			ED (-8.2 17.3)	

9.2.1.70 URA ID

IE/Group Name	Presence	Range	IE type and reference	Semantics description
URA ID			INTEGER	
			(065 535)	

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
UTRAN Access Point Position				
>Latitude Sign	M		ENUMERAT ED (North, South)	
>Degrees of Latitude	М		INTEGER (02 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²³ X /90 < N+1 X being the latitude in degree (0° 90°)
>Degrees of Longitude	М		INTEGER (-2 ²³ 2 ²³ -1)	The IE value (N) is derived by this formula: N≤2 ²⁴ X /360 < N+1 X being the longitude in degree (-180°+180°)

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
UC-ID		1		
>RNC-Id	М		RNC-ID	
>C-ld	M		C-ID	

9.2.2 FDD Specific Parameters

This subclause contains parameters that are specific to FDD.

9.2.2.A Active Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence activation. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN.
Transmission Gap Pattern Sequence Status		0 to <maxtgps></maxtgps>		If the group is not present, none of the pattern sequences are activated.
>TGPSI Identifier	M		Integer(1< MaxTGPS>)	Establish a reference to the compressed mode pattern sequence. Up to <maxaps> simultaneous compressed mode pattern sequences can be activated.</maxaps>
>TGPRC	M		Integer (063)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	М		CFN	Connection Frame Number of the first frame of the first pattern 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 (1 300)	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

9.2.2.1 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER	Chips
			(038399)	

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	Semantics description
			reference	
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

The Closed Loop Mode2 Support Indicator indicates whether the particular cell is capable to support Closed loop mode2 or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Mode2 Support Indicator			ENUMERAT ED (Closed loop mode2 Supported, Closed loop mode2 not	
			supported).	

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.

Information Element/Group Name	Presence	Range	IE type and	Semantics description
			reference	
Closed Loop Timing Adjustment Mode			ENUMERAT	According to [10] chapter 7.1:
			ED (Offset1,	Offset1 = slot(j+1)mod15
			Offset2,)	Offset2 = $slot(j+2)mod15$

9.2.2.4 Compressed Mode Method

Void

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,	
			Closed loop	
			mode2,)	

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,)	

9.2.2.10 DL Power

The DL Power IE indicates the power level of the DPDCH symbols, expressed as a relative value with respect to the CPICH power.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
DL Power			Enumerated(-35+15dB)	Step 0.1dB

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

9.2.2.13 DRAC Control

This IE indicates whether the DCH is control by DRAC or not.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
DRAC Control			Enumerated	Requested means that
			(Requested,	DCH is controlled by DRAC
			Not-	•
			Requested)	

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	M		INTEGER(0. . 511)	According to the mapping in [27]. The maximum value is equal to the DL spreading factor –1

9.2.2.15 FDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
FDD S-CCPCH Offset			INTEGER(0.	0: 0 chip
			. 149)	1: 256 chip
				2: 512 chip
				149: 38144 chip
				ref. [8]

9.2.2.16 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink Step			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

9.2.2.20 IB_SG_POS

First position of an Information Block segment in the SFN cycle (IB_SG_POS < IB_SG_REP).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB_SG_POS			INTEGER	Only even positions allowed.
			(04094)	Reference [16]

9.2.2.21 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod IB_SG_REP = IB_SG_POS.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
IB_SG_REP			ENUMERAT	Repetition period for the IB
			ED (4, 8, 16,	segment in frames
			32, 64, 128,	
			256, 512,	
			1024, 2048,	
			4096)	

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	Semantics description
			reference	
Limited Power Increase			ENUMERAT	
			ED(Used,	
			Not used,)	

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 (110)	Slots

9.2.2.24 Max Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in 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 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 which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code Length			ENUMERAT ED(4,8,16,	
Longar			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 Number of DL channelisation codes

This parameter notifies DRNS of the number of DL channelisation codes required in Radio Links.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Number of DL channelisation codes			INTEGER (18)	

9.2.2.27 Pattern Duration (PD)

Void

9.2.2.27A PDSCH code mapping

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.

Method #1 - Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) values to PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code start' of Group = 1. The PDSCH code used for TFCI(field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.

Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2).

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code	M		INTEGER (015)	Scrambling code on which PDSCH is transmitted. 0= Primary scrambling code of the cell 115 = Secondary scrambling code

Choice signalling method				
>code range				
>>PDSCH code mapping		1 to <maxnoco< td=""><td></td><td></td></maxnoco<>		
		deGroups>		
>>Spreading factor	М	do e. eupo	Enumerated(4, 8, 16, 32, 64, 128, 256)	
>>multi-code info	M		Integer(116	This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1
>>Code number	M		Integer(0m axCodeNum Comp-1)	PDSCH code start, Numbering as described in [16]
>>Code number	M		Integer(0m axCodeNum Comp-1)	PDSCH code stop, Numbering as described in [16]
>TFCI range				
>>DSCH mapping		1 to <maxnotf CIGroups></maxnotf 		
>>>Max TFCI(field2) value	M		Integer(110 23)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	М		Integer(116	Semantics as described for this parameter above
>>>Code number	М		Integer(0m axCodeNum Comp-1)	Code number of PDSCH code. Numbering as described in [16]
>Explicit				
>>>PDSCH code		1 to MaxTFCI_ 2_Combs		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(116	Semantics as described for this parameter above
>>>Code number	M		Integer(0m axCodeNum Comp-1)	Code number of PDSCH code. Numbering as described in [16]

Range Bound	Explanation
MaxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
MaxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

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 respect the Downlink transmission power of a DPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER	Unit dB, Step 0.25 dB, range
			(024)	0-6 dB

9.2.2.31 Power Resume Mode (PRM)

Void.

9.2.2.31A Preamble Signatures

This IE gives the preamble signatures allowed for a PRACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1
				 Bit 15=P15 See ref. [21].

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 reference	Semantics description
Primary CPICH Ec/No			INTEGER (-	Unit dB, step 1 dB
			30+30)	

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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Propagation Delay			INTEGER (0255)	Chips. Step size is 3 chips. 0=0 chips, 1=3 chips,

9.2.2.33A PRACH Minimum Spreading Factor

This IE gives the lowest allowed spreading factor for a PRACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Minimum Spreading Factor			Enumerated (32,64,128, 256)	Defines the lowest allowed. See ref. [16].

9.2.2.34 QE-Selector

Void.

9.2.2.34A RACH Sub Channel Numbers

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Sub Channel Numbers			BIT STRING (12)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1
				Bit 11=Sub Channel Number

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 RSSI

The parameter indicates the RSSI in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RSSI			INTEGER(0621)	According to mapping in [11].

9.2.2.36 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SSDT Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERAT	
			ED (1, 2,)	

9.2.2.37 Scrambling Code Change

Void.

9.2.2.37A Scrambling Code Number

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Number			INTEGER (015)	Identification of scrambling code see Ref. [21].

9.2.2.38 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER (017,)	See ref. [8].

9.2.2.39 Slot Number (SN)

Void

9.2.2.40 SSDT Cell Identity

The SSDT Cell Identity is a temporary ID for SSDT assigned to a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Cell Identity			ENUMERAT	
			ED (a, b, h)	

9.2.2.41 SSDT Cell Identity Length

The SSDT Cell Identity Length parameter shows the length of the SSDT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Cell Identity Length			ENUMERAT	
			ED(Short,	
			Medium,	
			Long)	

9.2.2.42 SSDT Indication

The SSDT Indication indicates whether SSDT is in use by the UE or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Indication			ENUMERAT	
			ED(SSDT	
			Active in the	
			UE, SSDT	
			not Active in	
			the UE)	

9.2.2.43 SSDT Support Indicator

The SSDT Support Indicator indicates whether a RL supports SSDT or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Support Indicator			ENUMERAT	
			ED (SSDT	
			Supported,	
			SSDT not	
			supported).	

9.2.2.44 STTD Indicator

Indicates if STTD is active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Indicator			ENUMERAT ED(active, inactive)	

9.2.2.45 STTD Support Indicator

The STTD Support Indicator indicates whether the STTD can be applied to DL 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).	

9.2.2.46 TFCI Signalling Mode

This parameter indicates if the normal or split mode is used for the TFCI.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Signalling Mode			ENUMERAT ED (Normal, Solit)	

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 to <maxtgps></maxtgps>		
>TGPSI Identifier	М		Integer(1< 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	М		Integer (014)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		Integer(114)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	0		Integer (114)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	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 gappattern. 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.
>TGPL2	0		Integer (1144,)	The duration of transmission gap pattern 2 in frames. If omitted, then TGPL2=TGPL1.
>UL/DL mode	М		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink compressed mode method	C-DL		Enumerated (puncturing, SF/2, higher layer scheduling,)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped.
>Uplink compressed mode method	C-UL		Enumerated (SF/2, higher layer scheduling,)	Method for generating uplink compressed mode gap.
>Downlink frame type	М		Enumerated (A, B)	Defines if frame type 'A' or 'B' shall be used in downlink compressed mode.
>DeltaSIR1	М		Integer (030)	Delta in UL SIR target value to be set in the DRNS during the compressed frames corresponding to 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	M	Integer (030)	Delta in UL SIR target value to be set in the DRNS one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern,. Step 0.1 dB, Range 0-3dB
>DeltaSIR2	0	Integer (030)	Delta in UL SIR target value to be set in the DRNS during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1.
>DeltaSIRafter2	0	Integer (030)	Step 0.1 dB, Range 0-3dB Delta in UL SIR target value to be set in the DRNS one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1 dB, Range 0-3dB

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL
	mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL
	mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

9.2.2.47B Transmission Gap Pattern Sequence Information Response

This IE indicates whether the alternative scrambling code can be used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling code change			Enumerated (code change, no code change)	Indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

9.2.2.48 Transmit Diversity Indicator

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmit Diversity Indicator			ENUMERAT	
			ED (active,	
			inactive)	

The Transmit Diversity Indicator indicates whether Transmit Diversity shall be active or not.

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:

- P-CPICH is broadcast from two antennas
- STTD is applied to P-CCPCH
- TSTD is applied to P-SCH and S-SCH

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Tx Diversity Indicator			ENUMERAT	
-			ED (true,	
			false).	

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,)	

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				
>UL Scrambling Code Number	М		INTEGER (0 2 ²⁴ -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

9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

9.2.3.A Block STTD Indicator

Indicates if Block STTD antenna diversity is applied or not to the PCCPCH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Block STTD Indicator			ENUMERAT ED(active, inactive)	

9.2.3.1 Burst Type

Void.

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)	

9.2.3.3 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 Maximum Number of timeslots per frame

Defines the maximum number of timeslots the UE has the capability of receiving or transmitting.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Number of			INTEGER	
Timeslots per frame			(114)	

9.2.3.3B Maximum number of UL physical channels per timeslot

Defines the maximum number of physical channels per frame 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 per frame

Defines the maximum number of physical channels 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 per			(1224)	
Frame				

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 shift is selected by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble shift is chosen 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 Allocation Mode	М		Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift	C-UE		Integer(015)	
>Type 2				
>>Midamble Allocation Mode	M		Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift			INTEGER (015)	
>Type 3				UL only
>>Midamble Allocation Mode	М		Enumerated (Default midamble, UE specific midamble)	
>>Midamble Shift	C-UE		Integer(015)	
>				

Condition	Explanation		
C-UE	This information element is only sent when the value		
	of the "Midamble Allocation Mode" IE is "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)	

9.2.3.5 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 in in ref. [14].

9.2.3.5A PRACH Midamble

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Midamble			ENUMERAT ED	
			(Inverted, Direct)	

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 [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 [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERATED (1,2,4,8,16,32,6 4)	

9.2.3.8 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	Semantics description
			reference	
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 DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The first range 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 second range is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offet for each DPCH in this CCTrCH shall calculated by TDD DPCH Offset *mod* Repetition period, see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD DPCH Offset			CHOICE INTEGER (063) or INTEGER	
			(0255)	

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 [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel			INTEGER	
Offset			(063)	

9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD TPC Downlink step size			ENUMERAT	
-			ED (1, 2,	
			3,)	

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	M		Enumerated	
			(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 Timing Adjustment Required

Defines the need for the UE to adjust its timing when entering a particular cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Timing Adjustment			ENUMERAT	
Required			ED	
•			(NoAdjustme	
			nt,	
			AdjustmentN	
			ecessary)	

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 (081)	According to mapping in [14].

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)	

9.3 Message and Information element abstract syntax (with ASN.1)

9.3.0 General

Section 9.3 presents the Abstract Syntax of RNSAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this section and the tabular format in sections 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of 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 where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a 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 section 10.3.7.

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

-- Elementary Procedure definitions

```
RNSAP-PDU-Descriptions {
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
   CommonTransportChannelResourcesFailure,
   CommonTransportChannelResourcesRequest,
    CommonTransportChannelResourcesReleaseRequest,
   CommonTransportChannelResourcesResponseFDD,
   CommonTransportChannelResourcesResponseTDD,
   CompressedModeCommand,
   DedicatedMeasurementFailureIndication,
   DedicatedMeasurementInitiationFailure,
   DedicatedMeasurementInitiationRequest,
   DedicatedMeasurementInitiationResponse,
   DedicatedMeasurementReport,
   DedicatedMeasurementTerminationRequest,
   DL-PowerControlRequest,
   DownlinkSignallingTransferRequest,
   ErrorIndication,
    PagingRequest,
    PhysicalChannelReconfigurationCommand,
    PhysicalChannelReconfigurationFailure,
    PhysicalChannelReconfigurationRequestFDD,
    PhysicalChannelReconfigurationRequestTDD,
    PrivateMessage,
   RadioLinkAdditionFailureFDD,
   RadioLinkAdditionFailureTDD,
   RadioLinkAdditionRequestFDD,
   RadioLinkAdditionRequestTDD,
   RadioLinkAdditionResponseFDD,
   RadioLinkAdditionResponseTDD,
    RadioLinkDeletionRequest,
```

```
RadioLinkDeletionResponse,
    RadioLinkFailureIndication,
    RadioLinkReconfigurationCancel,
    RadioLinkReconfigurationCommit,
    RadioLinkReconfigurationFailure,
    RadioLinkReconfigurationPrepareFDD.
    RadioLinkReconfigurationPrepareTDD,
    RadioLinkReconfigurationReadyFDD,
    RadioLinkReconfigurationReadyTDD,
    RadioLinkReconfigurationRequestFDD,
    RadioLinkReconfigurationRequestTDD,
    RadioLinkReconfigurationResponse,
    RadioLinkRestoreIndication,
    RadioLinkSetupFailureFDD,
    RadioLinkSetupFailureTDD,
    RadioLinkSetupRequestFDD,
    RadioLinkSetupRequestTDD,
    RadioLinkSetupResponseFDD,
    RadioLinkSetupResponseTDD,
    RelocationCommit,
    UplinkSignallingTransferIndicationFDD,
    UplinkSignallingTransferIndicationTDD
FROM RNSAP-PDU-Contents
    id-commonTransportChannelResourcesInitiationFDD,
    id-commonTransportChannelResourcesInitiationTDD,
    id-commonTransportChannelResourcesRelease,
    id-compressedModeCommandFDD,
    id-downlinkPowerControl,
    id-downlinkSignallingTransfer,
    id-errorIndication,
    id-measurementFailure,
    id-measurementInitiation,
    id-measurementReporting,
    id-measurementTermination,
    id-pagingRequest,
    id-physicalChannelReconfiguration,
    id-privateMessage,
    id-radioLinkAddition,
    id-radioLinkDeletion,
    id-radioLinkFailure,
    id-radioLinkRestoration,
    id-radioLinkSetup,
    id-srnsRelocationCommit,
    id-synchronisedRadioLinkReconfigurationCancellation.
    id-synchronisedRadioLinkReconfigurationCommit,
    id-synchronisedRadioLinkReconfigurationPrepare,
    id-unSynchronisedRadioLinkReconfiguration,
    id-uplinkSignallingTransferFDD,
    id-uplinkSignallingTransferTDD
FROM RNSAP-Constants;
```

```
-- Interface Elementary Procedure Class
__ *********************
RNSAP-ELEMENTARY-PROCEDURE ::= CLASS {
   &InitiatingMessage
   &SuccessfulOutcome
                                 OPTIONAL,
   &UnsuccessfulOutcome
                                    OPTIONAL,
   &Out.come
                             OPTIONAL,
   &procedureID
                         ProcedureID
                                        UNIQUE,
   &criticality
                         Criticality
                                        DEFAULT ignore
WITH SYNTAX {
   INITIATING MESSAGE
                         &InitiatingMessage
                         &SuccessfulOutcome]
   [SUCCESSFUL OUTCOME
                             &UnsuccessfulOutcome]
   [UNSUCCESSFUL OUTCOME
   [OUTCOME
                      &Outcome1
   PROCEDURE ID
                         &procedureID
   [CRITICALITY
                         &criticality]
     ****************
-- Interface PDU Definition
  ******************
RNSAP-PDU ::= CHOICE {
   initiatingMessage
                    InitiatingMessage,
   succesfulOutcome
                      SuccessfulOutcome,
   unsuccesfulOutcome UnsuccessfulOutcome,
   outcome
                  Outcome,
InitiatingMessage ::= SEQUENCE
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}),
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}(@procedureID)),
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
   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}),
                                                          ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
    transactionID TransactionID,
               RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
    value
Outcome ::= 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. & Outcome
        **************
-- 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
   measurementInitiation
    commonTransportChannelResourcesInitiationFDD
    commonTransportChannelResourcesInitiationTDD
RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= {
    uplinkSignallingTransferFDD
   uplinkSignallingTransferTDD
   downlinkSignallingTransfer
    srnsRelocationCommit
```

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```
synchronisedRadioLinkReconfigurationCommit
   synchronisedRadioLinkReconfigurationCancellation
   radioLinkFailure
   radioLinkRestoration
   measurementReporting
   measurementTermination
   measurementFailure
   downlinkPowerControlFDD
   compressedModeCommandFDD
   commonTransportChannelResourcesRelease
   errorIndication
   privateMessage
RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
    -- Interface Elementary Procedures
__ **********************
radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestFDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
                         RadioLinkSetupFailureFDD
   UNSUCCESSFUL OUTCOME
   PROCEDURE ID
                      { procedureCode id-radioLinkSetup, ddMode fdd }
   CRITICALITY
                  reject
radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestTDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkSetupFailureTDD
                      { procedureCode id-radioLinkSetup, ddMode tdd }
   PROCEDURE ID
   CRITICALITY
                  reject
radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkAdditionRequestFDD
   SUCCESSFUL OUTCOME RadioLinkAdditionResponseFDD
                         RadioLinkAdditionFailureFDD
   UNSUCCESSFUL OUTCOME
   PROCEDURE ID
                      { procedureCode id-radioLinkAddition , ddMode fdd }
   CRITICALITY
                  reject
radioLinkAdditionTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
```

```
INITIATING MESSAGE RadioLinkAdditionRequestTDD
    SUCCESSFUL OUTCOME RadioLinkAdditionResponseTDD
    UNSUCCESSFUL OUTCOME
                           RadioLinkAdditionFailureTDD
    PROCEDURE ID
                        { procedureCode id-radioLinkAddition , ddMode tdd }
    CRITICALITY
                    reject
radioLinkDeletion RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkDeletionRequest
    SUCCESSFUL OUTCOME RadioLinkDeletionResponse
                        { procedureCode id-radioLinkDeletion, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    reject
synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyFDD
                           RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    reject
synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyTDD
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationRequestFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponse
                            RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationRequestTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponse
    UNSUCCESSFUL OUTCOME
                           RadioLinkReconfigurationFailure
    PROCEDURE ID
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    CRITICALITY
                    reject
physicalChannelReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME
                            PhysicalChannelReconfigurationFailure
                        { procedureCode id-physicalChannelReconfiguration, ddMode fdd }
    PROCEDURE ID
```

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```
CRITICALITY
                    reject
physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
                           PhysicalChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-physicalChannelReconfiguration, ddMode tdd }
    CRITICALITY
                   reject
measurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME DedicatedMeasurementInitiationResponse
                           DedicatedMeasurementInitiationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-measurementInitiation, ddMode common }
    CRITICALITY
                    reject
commonTransportChannelResourcesInitiationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseFDD
                           CommonTransportChannelResourcesFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesInitiationFDD, ddMode common }
    CRITICALITY
                    reject
commonTransportChannelResourcesInitiationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
    UNSUCCESSFUL OUTCOME
                           CommonTransportChannelResourcesFailure
                        { procedureCode id-commonTransportChannelResourcesInitiationTDD, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationFDD
    PROCEDURE ID
                        { procedureCode id-uplinkSignallingTransferFDD, ddMode fdd }
    CRITICALITY
                    ignore
uplinkSignallingTransferTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationTDD
    PROCEDURE ID
                        { procedureCode id-uplinkSignallingTransferTDD, ddMode tdd }
    CRITICALITY
                    ignore
downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DownlinkSignallingTransferRequest
    PROCEDURE ID
                        { procedureCode id-downlinkSignallingTransfer, ddMode common }
    CRITICALITY
                    ignore
```

```
srnsRelocationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RelocationCommit
    PROCEDURE ID
                        { procedureCode id-srnsRelocationCommit, ddMode common
    CRITICALITY
paging RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PagingRequest
                        { procedureCode id-pagingRequest, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
                        { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
                        { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
                        { procedureCode id-radioLinkFailure, ddMode common }
    PROCEDURE ID
                   ignore
    CRITICALITY
radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkRestoreIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkRestoration, ddMode common
    CRITICALITY
                    ignore
measurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
                        { procedureCode id-measurementReporting, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
measurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementTerminationRequest
    PROCEDURE ID
                        { procedureCode id-measurementTermination, ddMode common }
    CRITICALITY
                    ignore
measurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
```

```
INITIATING MESSAGE DedicatedMeasurementFailureIndication
                        { procedureCode id-measurementFailure, ddMode common }
    CRITICALITY
                    ignore
downlinkPowerControlFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerControlRequest
    PROCEDURE ID
                        { procedureCode id-downlinkPowerControl, ddMode fdd }
    CRITICALITY
                    ignore
compressedModeCommandFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CompressedModeCommand
    PROCEDURE ID
                        { procedureCode id-compressedModeCommandFDD, ddMode fdd }
    CRITICALITY
                    ignore
commonTransportChannelResourcesRelease RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesReleaseRequest
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesRelease, ddMode common }
    CRITICALITY
                    ignore
errorIndication RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE ErrorIndication
                        { procedureCode id-errorIndication, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PrivateMessage
                        { procedureCode id-privateMessage, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
END
```

9.3.3 PDU Definitions

BEGIN

```
__ ********************
-- IE parameter types from other modules.
__ *******************
   Active-Pattern-Sequence-Information,
   AllocationRetentionPriority,
   AllowedOueuingTime,
   BLER.
   Block-STTD-Indicator,
   BindingID,
   C-ID,
   C-RNTI,
   CCTrCH-ID,
   CellIndividualOffset,
   CFN,
   ClosedLoopModel-SupportIndicator,
   ClosedLoopMode2-SupportIndicator,
   Closedlooptimingadjustmentmode,
   CN-CS-DomainIdentifier,
   CN-PS-DomainIdentifier,
   Cause,
   CellParameterID,
   ChipOffset,
   CriticalityDiagnostics,
   D-RNTI,
   D-RNTI-ReleaseIndication,
   DCH-ID,
   DL-DPCH-SlotFormat,
   DL-TimeslotISCP,
   DL-Power,
   DL-ScramblingCode,
   DPCHConstantValue,
   DPCH-ID,
   DRACControl,
   DRXCycleLengthCoefficient,
   DedicatedMeasurementType,
   DedicatedMeasurementValue,
   DiversityControlField,
   DiversityMode,
   DSCH-ID.
   FACH-InitialWindowSize,
   SchedulingPriorityIndicator,
   FDD-DL-ChannelisationCodeNumber,
   FDD-S-CCPCH-Offset,
   FDD-TPC-DownlinkStepSize,
```

```
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset.
GA-AccessPointPosition,
GA-Cell.
IB-SG-POS,
IB-SG-REP,
IMSI,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrDLPhysicalchannels,
MaxNrOfUL-DPCHs,
MaxNrTimeslots,
MaxNrULPhysicalchannels,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShiftAndBurstType,
MinimumSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
OE-Selector,
RACH-SubChannelNumbers,
RANAP-RelocationInformation,
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
RSSI,
S-FieldLength,
S-RNTI,
```

```
SCH-TimeSlot,
    SAI,
    SN,
    SSDT-CellID,
    SSDT-CellID-Length,
    SSDT-Indication,
    SSDT-SupportIndicator,
    STTD-Indicator,
    STTD-SupportIndicator,
    AdjustmentPeriod,
    ScaledAdjustmentRatio,
    MaxAdjustmentStep,
    ScramblingCodeNumber,
    SecondaryCCPCH-SlotFormat,
    SyncCase,
    TDD-ChannelisationCode,
    TDD-DPCHOffset,
    TDD-PhysicalChannelOffset,
    TDD-TPC-DownlinkStepSize,
   TFCI-Coding,
    TFCI-Presence,
    TFCI-SignallingMode,
   TimeSlot,
    TimingAdjustmentRequired,
    ToAWE,
    ToAWS,
    TransmitDiversityIndicator,
    TransportBearerID,
    TransportBearerRequestIndicator,
    Transmission-Gap-Pattern-Sequence-Information,
    Transmission-Gap-Pattern-Sequence-Information-Response,
    TransportFormatManagement,
    TransportFormatSet,
    TransportLayerAddress,
    TrCH-SrcStatisticsDescr,
    TxDiversityIndicator,
    UARFCN,
    UC-ID,
    UL-DPCCH-SlotFormat,
    UL-SIR,
    UL-FP-Mode,
    UL-ScramblingCode,
    UL-TimeslotISCP,
    URA-ID,
    USCH-ID
FROM RNSAP-IEs
    PrivateIE-Container{},
    ProtocolExtensionContainer{},
    ProtocolIE-ContainerList{},
```

```
ProtocolIE-ContainerPair{},
    ProtocolIE-ContainerPairList{},
    ProtocolIE-Container{},
    ProtocolIE-Single-Container{},
    RNSAP-PRIVATE-IES,
    RNSAP-PROTOCOL-EXTENSION,
    RNSAP-PROTOCOL-IES,
    RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers
    maxNoOfDSCHs,
    maxNoOfRB,
    maxNoOfUSCHs,
    maxNrOfCCTrCHs,
    maxNrOfDCHs,
    maxNrOfTS,
    maxNrOfDL-Codes,
    maxNrOfDPCHs,
    maxNrOfMACcshSDU-Length,
    maxNrOfRLs,
    maxNrOfRLSets,
    maxNrOfRLs-1,
    maxNrOfRLs-2,
    maxNrOfSCCPCHs,
    maxNrOfULTs,
    maxNrOfDLTs,
    maxRNCinURA-1,
    maxNrOfNeighbouringRNCs,
    maxNrOfFDDNeighboursPerRNC,
    maxNrOfTDDNeighboursPerRNC,
    maxFACHCountPlus1,
    maxIBSEG,
    id-Active-Pattern-Sequence-Information,
    id-AdjustmentRatio,
    id-All-RLItem-DM-Rqst,
    id-All-RLItem-Set-DM-Rqst,
    id-AllowedOueuingTime,
    id-BindingID,
    id-C-ID,
    id-C-RNTI,
    id-CFN,
    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-CellItem-PagingRqst,
```

```
id-ClosedLoopModel-SupportIndicator,
id-ClosedLoopMode2-SupportIndicator,
id-CombiningItem-RL-AdditionFailureFDD.
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CriticalityDiagnostics.
id-D-RNTI,
id-D-RNTI-ReleaseIndication.
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRgstTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRgstFDD,
id-DCH-DeleteList-RL-ReconfRgstTDD,
id-DCH-Information-RL-SetupRgstFDD,
id-DCH-InformationList-RL-SetupRgstTDD,
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,
id-DCH-InformationResponseListIE-RL-ReconfRsp,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfRqstFDD,
id-DCH-ModifyList-RL-ReconfRqstTDD,
id-DCH-InformationResponseListIE-RL-SetupRspTDD,
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-ReconfRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
id-DL-CodeInformationListIE-RL-AdditionFailureFDD.
id-DL-CodeInformationListIE-RL-AdditionRspFDD,
id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
id-DL-CodeInformationListIE-RL-ReconfResp,
id-DL-CodeInformationListIE-RL-SetupFailureFDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
```

```
id-DL-DPCH-Information-RL-SetupRgstFDD,
id-DL-DPCH-Information-RL-ReconfRgstFDD,
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-Physical-Channel-Information-RL-SetupRqstTDD,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rgst,
id-DL-ReferencePowerInformation-DL-PC-Rqst,
id-DRXCycleLengthCoefficient,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rgst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DiversityIndicationItem-RL-AdditionFailureFDD,
id-DiversityIndicationItem-RL-AdditionRspFDD,
id-DiversityIndicationItem-RL-AdditionRspTDD,
id-DiversityIndicationItem-RL-SetupFailureFDD,
id-DiversityIndicationItem-RL-SetupRspFDD,
id-DSCH-AddList-RL-ReconfPrepTDD,
id-DSCH-Add-RL-ReconfPrepFDD,
id-DSCH-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Delete-RL-ReconfPrepFDD,
id-DSCH-InformationItem-RL-SetupRgstFDD,
id-DSCH-InformationListIE-RL-AdditionRspTDD,
id-DSCH-InformationListIEs-RL-SetupRspTDD,
id-DSCH-InformationList-RL-SetupRgstTDD,
id-DSCH-InformationResponseItem-RL-SetupRspFDD,
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD,
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD,
id-DSCH-Information-RL-SetupRqstFDD,
id-DSCH-ModifyList-RL-ReconfPrepTDD,
id-DSCH-Modify-RL-ReconfPrepFDD,
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD,
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD,
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,
id-GA-AccessPointPosition,
id-GA-Cell.
id-GeneralCauseItem-RL-AdditionFailureFDD.
id-GeneralCauseItem-RL-AdditionFailureTDD,
id-GeneralCauseItem-RL-ReconfFailure,
id-GeneralCauseItem-RL-SetupFailureFDD,
id-GeneralCauseItem-RL-SetupFailureTDD,
id-IMSI,
id-L3-Information,
```

```
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD,
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD,
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD.
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
id-AdjustmentPeriod,
id-MaxAdiustmentStep.
id-MeasurementAvailableItem-DedicatedMeasurementReport,
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MultipleURAsIndicator,
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD,
id-Neighbouring-CellInformationItem-RL-AdditionRsp,
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
id-Neighbouring-CellInformationItem-RL-SetupRsp,
id-NonCombiningItem-RL-AdditionFailureFDD,
id-NonCombiningItem-RL-AdditionRspFDD,
id-NonCombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,
id-PagingArea-PagingRgst,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD.
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
id-PowerAdjustmentType,
id-ProcedureScope-DL-PC-Rqst,
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD,
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD,
id-RANAP-RelocationInformation,
id-RL-Information-PhyChReconfRgstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRgstFDD,
id-RL-Information-RL-AdditionRqstTDD,
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-DM-Rprt,
id-RL-InformationItem-DM-Rgst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRgstFDD,
id-RL-InformationList-RL-DeletionRqst,
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-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD.
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRsp.
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RLItem-DM-Rprt,
id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-RLItem-RL-FailureInd,
id-RLItem-RL-RestoreInd,
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-SetItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-SetItem-DM-Rsp.
id-RL-SetItem-RL-FailureInd,
id-RL-SetItem-RL-RestoreInd,
id-RLSpecificCauseItem-RL-AdditionFailureFDD.
id-RLSpecificCauseItem-RL-AdditionFailureTDD,
id-RLSpecificCauseItem-RL-ReconfFailure,
id-RLSpecificCauseItem-RL-SetupFailureFDD,
id-RLSpecificCauseItem-RL-SetupFailureTDD,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD,
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD,
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-S-RNTI,
id-SAI,
id-SRNC-ID,
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
id-STTD-SupportIndicator,
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-TransportBearerID,
id-TransportBearerRequestIndicator,
id-TransportLayerAddress,
id-UC-ID,
id-Transmission-Gap-Pattern-Sequence-Information,
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-ReconfRgstTDD.
    id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
    id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
    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-CCTrCH-InformationListIE-RL-SetupRspTDD,
    id-UL-DPCH-Information-RL-ReconfPrepFDD,
    id-UL-DPCH-Information-RL-ReconfRgstFDD,
    id-UL-DPCH-Information-RL-SetupRgstFDD,
    id-UL-DPCH-InformationItem-PhyChReconfRgstTDD,
    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-URAItem-PagingRgst,
    id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
    id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,
    id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD.
    id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
    id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
   id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
    id-USCH-AddList-RL-ReconfPrepTDD.
   id-USCH-DeleteList-RL-ReconfPrepTDD,
    id-USCH-InformationListIE-RL-AdditionRspTDD,
    id-USCH-InformationListIEs-RL-SetupRspTDD,
    id-USCH-InformationList-RL-SetupRgstTDD,
    id-USCH-ModifyList-RL-ReconfPrepTDD,
    id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
FROM RNSAP-Constants;
     ***************
-- Common Container List
__ **********************
RL-IE-ContainerList0
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                                                                  ::= ProtocolIE-ContainerList { 0, maxNrOfRLs,
                                                                                                                      IEsSetParam }
RL-IE-ContainerList1
                                                                  ::= ProtocolIE-ContainerList { 1, maxNrOfRLs,
                                                                                                                      IEsSetParam } }
                             RNSAP-PROTOCOL-IES : IEsSetParam}
```

```
RL-IE-ContainerList1-1
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                                                                  ::= ProtocolIE-ContainerList
                                                                                              { 1, maxNrOfRLs-1,
                                                                                                                     IEsSetParam }
RL-IE-ContainerList0-1
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                                                                  ::= ProtocolIE-ContainerList

 maxNrOfRLs-1.

                                                                                                                     IEsSet.Param
RL-IE-ContainerList0-2
                             RNSAP-PROTOCOL-IES : IEsSetParam
                                                                  ::= ProtocolIE-ContainerList
                                                                                                0. maxNrOfRLs-2.
                                                                                                                     IEsSetParam
RL-Set-IE-ContainerList
                             RNSAP-PROTOCOL-IES : IEsSetParam
                                                                  ::= ProtocolIE-ContainerList

    maxNrOfRLSets,

                                                                                                                     IEsSetParam
CCTrCH-IE-ContainerList()
                                                                  ::= ProtocolIE-ContainerList
                                                                                                0, maxNrOfCCTrCHs,
                                                                                                                     IEsSetParam
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                             RNSAP-PROTOCOL-IES : IEsSetParam}
CCTrCH-IE-ContainerList1
                                                                  ::= ProtocolIE-ContainerList
                                                                                                1, maxNrOfCCTrCHs,
                                                                                                                     IEsSetParam
DSCH-IE-ContainerList
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                                                                  ::= ProtocolIE-ContainerList
                                                                                               1, maxNoOfDSCHs,
                                                                                                                     IEsSetParam
USCH-IE-ContainerList
                             RNSAP-PROTOCOL-IES : IEsSetParam}
                                                                  ::= ProtocolIE-ContainerList { 1, maxNoOfUSCHs,
                                                                                                                     IEsSetParam
  -- RADIO LINK SETUP REQUEST FDD
      RadioLinkSetupRequestFDD ::= SEOUENCE {
                                                             {{RadioLinkSetupRequestFDD-IEs}},
   protocolIEs
                                   ProtocolIE-Container
   protocolExtensions
                                   ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}
                                                                                                                     OPTIONAL,
    . . .
RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
                                                                                     PRESENCE mandatory }
     ID id-SRNC-ID
                                  CRITICALITY reject TYPE RNC-ID
     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 AllowedOueuingTime
                                                                                             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-SetupRgstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRgstFDD
                                                                                                             PRESENCE mandatory
     ID id-DCH-Information-RL-SetupRqstFDD
                                              CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstFDD
                                                                                                             PRESENCE mandatory
                                              CRITICALITY reject TYPE DSCH-Information-RL-SetupRqstFDD
     ID id-DSCH-Information-RL-SetupRgstFDD
                                                                                                             PRESENCE optional
     ID id-RL-Information-RL-SetupRgstFDD
                                              CRITICALITY notify TYPE RL-InformationList-RL-SetupRgstFDD
                                                                                                             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 },
UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE
    ul-ScramblingCode
                                  UL-ScramblingCode,
   minUL-ChannelisationCodeLength
                                          MinUL-ChannelisationCodeLength,
   maxNrOfUL-DPCHs
                                  MaxNrOfUL-DPCHs
                                                          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 -- ,
   ul-PunctureLimit
                                   PunctureLimit,
    ul-TECS
                                   TFCS,
   ul-DPCCH-SlotFormat
                                  UL-DPCCH-SlotFormat,
   ul-SIRTarget
                                   UL-SIR
                                                  OPTIONAL,
    diversityMode
                                   DiversityMode,
    sSDT-CellIdLength
                                   SSDT-CellID-Length
                                                          OPTIONAL,
    s-FieldLength
                                   S-FieldLength
                                                          OPTIONAL,
    iE-Extensions
                                   ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
```

```
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
DL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes,
    tFCI-SignallingMode
                                    TFCI-SignallingMode,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
    powerOffsetInformation
                                        SEQUENCE {
       pol-ForTFCI-Bits
                                        PowerOffset,
       po2-ForTPC-Bits
                                        PowerOffset,
       po3-ForPilotBits
                                        PowerOffset,
    fdd-dl-TPC-DownlinkStepSize
                                    FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationList-RL-SetupRqstFDD
                                                ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD
DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS,
    t.oAWE
                                        TOAWE,
    dCH-SpecificInformationList
                                        DCH-SpecificInformationList-RL-SetupRgstFDD,
                                        ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD
DCH-SpecificItem-RL-SetupRqstFDD ::=
                                        SEOUENCE {
    dCH-ID
                                        DCH-ID,
    trCH-SrcStatisticsDescr
                                        TrCH-SrcStatisticsDescr,
```

```
ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER.
    dl-BLER
                                        BLER,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    σE-Selector
                                        QE-Selector,
    dRACControl
                                        DRACControl,
    iE-Extensions
                                        ProtocolExtensionContainer { {DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    dSCH-Information
                                        DSCH-Info-RL-SetupRqstFDD,
    pdSCH-RL-ID
                                        RL-ID,
    tFCS
                                        TFCS,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
DSCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-Info-RL-SetupRqstFDD ::= DSCH-IE-ContainerList {{DSCH-InformationItemIEs-RL-SetupRqstFDD}} }
DSCH-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationItem-RL-SetupRqstFDD
                                                   CRITICALITY reject TYPE DSCH-InformationItem-RL-SetupRqstFDD PRESENCE mandatory },
    . . .
DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dsch-ID
                                        DSCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bler
                                        BLER,
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                            ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }
RL-InformationList-RL-SetupRqstFDD
```

```
RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }.
RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
                                RL-ID,
   C-TD
                                C-TD.
   firstRLS-indicator
                                FirstRLS-Indicator,
   frameOffset
                                FrameOffset,
   chipOffset
                                ChipOffset,
   propagationDelay
                                PropagationDelay
                                                     OPTIONAL.
   diversityControlField
                                DiversityControlField
                                                         OPTIONAL
   -- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
                                DL-Power
   dl-InitialTX-Power
                                                 OPTIONAL.
   primaryCPICH-EcNo
                                PrimaryCPICH-EcNo
                                                         OPTIONAL,
   -- Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be present.
                                SSDT-CellID
   sSDT-CellID
                                                  OPTIONAL,
   transmitDiversityIndicator
                                TransmitDiversityIndicator
                                                             OPTIONAL,
   -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
                                ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  -- RADIO LINK SETUP REQUEST TDD
  *************************
RadioLinkSetupRequestTDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{RadioLinkSetupRequestTDD-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
                                                                                                            OPTIONAL,
RadioLinkSetupRequestTDD-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-UL-Physical-Channel-Information-RL-SetupRgstTDD CRITICALITY reject TYPE UL-Physical-Channel-Information-RL-SetupRgstTDD
mandatory } |
```

```
{ ID id-DL-Physical-Channel-Information-RL-SetupRgstTDD CRITICALITY reject TYPE DL-Physical-Channel-Information-RL-SetupRgstTDD
                                                                                                                                         PRESENCE
mandatory } |
     ID id-AllowedOueuingTime
                                                        CRITICALITY reject TYPE AllowedOueuingTime
                                                                                                                             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-SetupRgstTDD
                                                        CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD
                                                                                                                             PRESENCE optional
     ID id-DCH-InformationList-RL-SetupRgstTDD
                                                        CRITICALITY reject TYPE DCH-InformationList-RL-SetupRgstTDD
                                                                                                                             PRESENCE optional
     ID id-DSCH-InformationList-RL-SetupRqstTDD
                                                        CRITICALITY reject TYPE DSCH-InformationList-RL-SetupRqstTDD
                                                                                                                             PRESENCE optional
     ID id-USCH-InformationList-RL-SetupRgstTDD
                                                        CRITICALITY reject TYPE USCH-InformationList-RL-SetupRqstTDD
                                                                                                                             PRESENCE optional
     ID id-RL-Information-RL-SetupRqstTDD
                                                        CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD
                                                                                                                             PRESENCE mandatory },
    . . .
UL-Physical-Channel-Information-RL-SetupRgstTDD ::= SEQUENCE {
    maxNrTimeslots-UL
                                    MaxNrTimeslots.
    minimumSpreadingFactor-UL
                                    MinimumSpreadingFactor,
    maxNrULPhysicalchannels
                                    MaxNrULPhysicalchannels,
                                    ProtocolExtensionContainer { {UL-Physical-Channel-InformationItem-RL-SetupRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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 ::= {
                                                    ::= CCTrCH-IE-ContainerList1 { {UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }
UL-CCTrCH-InformationList-RL-SetupRqstTDD
UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-SetupRgstTDD 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-SetupRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                               ::= CCTrCH-IE-ContainerList1 { {DL-CCTrCH-InformationItemIEs-RL-SetupRgstTDD} } }
DL-CCTrCH-InformationList-RL-SetupRgstTDD
DL-CCTrCH-InformationItemIEs-RL-SetupRgstTDD RNSAP-PROTOCOL-IES ::= {
   . . .
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                             CCTrCH-ID.
   dl-TFCS
                             TFCS,
                             TFCI-Coding,
   tFCI-Coding
   dl-PunctureLimit
                                 PunctureLimit,
   tdd-TPC-DownlinkStepSize
                                 TDD-TPC-DownlinkStepSize,
   cCTrCH-TPCList
                                 CCTrCH-TPCList-RL-SetupRqstTDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEOUENCE {
   cCTrCH-ID
   iE-Extensions
                                    ProtocolExtensionContainer { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
   . . .
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationList-RL-SetupRqstTDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD
DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
   payloadCRC-PresenceIndicator
                                    PayloadCRC-PresenceIndicator,
   ul-FP-Mode
                                    UL-FP-Mode,
   toAWS
                                    ToAWS,
   toAWE
                                    TOAWE,
   dCH-SpecificInformationList
                                    DCH-SpecificInformationList-RL-SetupRgstTDD,
                                    ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
```

```
DCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD
DCH-SpecificItem-RL-SetupRqstTDD ::=
                                        SEOUENCE {
    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,
    qE-Selector
                                        OE-Selector
                                                            OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
                                        ProtocolExtensionContainer { {DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-SpecificItem-RL-SetupRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationList-RL-SetupRgstTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-SetupRgstTDD
DSCH-InformationItem-RL-SetupRgstTDD ::= SEQUENCE {
    dscH-ID
                                        DSCH-ID.
    dl-ccTrCHID
                                        CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr.
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bler
                                        BLER,
                                        ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD
USCH-InformationItem-RL-SetupRqstTDD ::= 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-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    . . .
USCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RB-Info ::= SEOUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity
RL-Information-RL-SetupRgstTDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   c-ID
                              C-ID,
   frameOffset
                              FrameOffset,
   primaryCCPCH-RSCP
                                  PrimaryCCPCH-RSCP
                                                         OPTIONAL,
   timeSlot-ISCPList-RL-SetupRqstTDD TimeSlot-ISCPList-RL-SetupRqstTDD OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { {RL-Information-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TimeSlot-ISCPList-RL-SetupRgstTDD ::= SEOUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPItem-RL-SetupRspTDD
Timeslot-ISCPItem-RL-SetupRspTDD ::= SEQUENCE {
   timeSlot
                              TimeSlot,
   dL-TimeslotISCP
                              DL-TimeslotISCP.
                              ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ******************
-- RADIO LINK SETUP RESPONSE FDD
__ ********************************
```

```
RadioLinkSetupResponseFDD ::= SEOUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                                {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions
                                    ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
                                                                                                                           OPTIONAL.
RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-D-RNTI
                                            CRITICALITY ignore TYPE D-RNTI
                                                                                                PRESENCE optional
      TD 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 ignore 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-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }
RL-InformationResponseList-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-ID
                                    URA-ID,
    sAI
                                    SAI,
    qA-Cell
                                    GA-Cell
                                                OPTIONAL,
    qA-AccessPointPosition
                                    GA-AccessPointPosition
                                                                OPTIONAL,
    secondary-CCPCH-Info
                                    Secondary-CCPCH-Info-RL-SetupRspFDD
                                                                            OPTIONAL,
    dl-CodeInformation
                                    DL-CodeInformationList-RL-SetupRspFDD,
    diversityIndication
                                    DiversityIndication-RL-SetupRspFDD,
    -- 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
    maxUL-SIR
                                    UL-SIR,
    minUL-SIR
                                    UL-SIR,
    closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                    MaximumAllowedULTxPower.
    maximumDLTxPower
                                    DL-Power,
    minimumDLTxPower
                                    DL-Power,
                                    DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
    dSCHInformationResponse
    neighbouring-CellInformation
                                    Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEOUENCE {
    fDD-S-CCPCH-Offset
                                          FDD-S-CCPCH-Offset.
   dl-ScramblingCode
                                         DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                         FDD-DL-ChannelisationCodeNumber,
   dl-TFCS
   secondaryCCPCH-SlotFormat
                                          SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                          TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
   multiplexingPosition
                                         MultiplexingPosition,
    sTTD-Indicator
                                          STTD-Indicator,
    fACH-PCH-InformationList
                                         FACH-PCH-InformationList-RL-SetupRspFDD,
    schedulingInformation
                                          SchedulingInformation-RL-SetupRspFDD,
   iE-Extensions
                                          ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    . . .
Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-SetupRspFDD
FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
    transportFormatSet
   iE-Extensions
                                  ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
   iB-SG-Rep
                                  IB-SG-REP,
                                  SegmentInformationList-RL-SetupRspFDD,
   segmentInformationList
   iE-Extensions
                                  ProtocolExtensionContainer { { SchedulingInformation-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
       . . .
SchedulingInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-SetupRspFDD
SegmentInformationItem-RL-SetupRspFDD ::= SEQUENCE {
   iB-SG-POS
                                  IB-SG-POS,
   iE-Extensions
```

```
SegmentInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupRspFDD
DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE
   dl-ScramblingCode
                                DL-ScramblingCode,
   fDD-DL-ChannelisationCodeNumber
                                       FDD-DL-ChannelisationCodeNumber,
   transmission-Gap-Pattern-Sequence-Information-Response
                                                                Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}
DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
   DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory }
DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
   combining
                                Combining-RL-SetupRspFDD,
   nonCombiningOrFirstRL
                                NonCombiningOrFirstRL-RL-SetupRspFDD,
Combining-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
   CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
   rL-ID
                            RL-ID,
                            ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-SetupRspFDD }}
NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
```

```
{ ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD
                                                    CRITICALITY ignore TYPE
                                                                                NonCombiningOrFirstRLItem-RL-SetupRspFDD PRESENCE mandatory }
NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE
    dCH-InformationResponse-RL-SetupRspFDD
                                              DCH-InformationResponseList-RL-SetupRspFDD OPTIONAL,
   iE-Extensions
                                              ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL.
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-SetupRspFDD ::= SEOUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD
DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE
    dCH-ID
                              DCH-ID,
   bindingID
                              BindingID,
    transportLayerAddress
                                      TransportLayerAddress,
   iE-Extensions
                                  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    . . .
DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    DSCH-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory
DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEOUENCE {
   dschInformationList
                          DSCHInformationList-RL-SetupRspFDD,
   pdSCHCodeMapping
                          PDSCHCodeMapping,
                          ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCHInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspFDD
DSCHInformationItem-RL-SetupRspFDD ::= SEQUENCE {
   dsch-ID
                          DSCH-ID,
   priorityIndicator
                          PriorityIndicator-RL-SetupRspFDD,
   bindingID
                          BindingID,
```

```
transportLayerAddress TransportLayerAddress,
   iE-Extensions
                           ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
DSCHInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD
PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator
                                  SchedulingPriorityIndicator,
   mAC-c-sh-SDU-Lengths
                                  MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
                                  ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-
CellInformationItemIE-RL-SetupRsp }}
Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
    Neighbouring-CellInformationItem-RL-SetupRsp PRESENCE
   mandatory }
Neighbouring-CellInformationItem-RL-SetupRsp ::= SEQUENCE
   rNC-ID
                                      RNC-ID,
                                      CN-PS-DomainIdentifier
    cN-PS-DomainIdentifier
                                                                 OPTIONAL,
   cN-CS-DomainIdentifier
                                      CN-CS-DomainIdentifier
                                                                 OPTIONAL,
   per-FDD-Cell-InformationList
                                      Per-FDD-Cell-InformationList-RL-SetupRsp
                                                                                 OPTIONAL,
   per-TDD-Cell-InformationList
                                      Per-TDD-Cell-InformationList-RL-SetupRsp
                                                                                 OPTIONAL,
                                      ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Per-FDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-SetupRsp
Per-FDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
   c-ID
                                      C-ID,
    uARFCNforNu
                                      UARFCN,
```

```
uARFCNforNd
                                      UARFCN.
   frameOffset.
                                      FrameOffset
                                                         OPTIONAL,
   primaryScramblingCode
                                      PrimaryScramblingCode.
   primaryCPICH-Power
                                      PrimaryCPICH-Power
                                                             OPTIONAL,
    cellIndividualOffset
                                      CellIndividualOffset
                                                             OPTIONAL.
    txDiversitvIndicator
                                      TxDiversitvIndicator,
    sTTD-SupportIndicator
                                      STTD-SupportIndicator
                                                            OPTIONAL,
    closedLoopModel-SupportIndicator
                                      ClosedLoopModel-SupportIndicator
    closedLoopMode2-SupportIndicator
                                      ClosedLoopMode2-SupportIndicator
                                                                        OPTIONAL,
                                      ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
   iE-Extensions
Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEOUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp
Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
   c-TD
                                  C-ID,
   uARFCNforNt
                                  UARFCN,
    frameOffset
                                  FrameOffset
                                                     OPTIONAL,
   cellParameterID
                                  CellParameterID,
   syncCase
                                  SyncCase,
   timeSlot
                                  TimeSlot.
                                                     OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot
                                  SCH-TimeSlot
                                                         OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
   block-STTD-Indicator
                                  Block-STTD-Indicator,
    cellIndividualOffset
                                  CellIndividualOffset
                                                         OPTIONAL,
   dPCHConstantValue
                                  DPCHConstantValue OPTIONAL,
   pCCPCH-Power
                                  PCCPCH-Power
                                                         OPTIONAL,
                                  ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
   iE-Extensions
Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   -- RADIO LINK SETUP RESPONSE TDD
__ ********************************
```

```
RadioLinkSetupResponseTDD ::= SEOUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                                {{RadioLinkSetupResponseTDD-IEs}},
    protocolExtensions
                                    ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
                                                                                                                           OPTIONAL.
RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-D-RNTI
                                    CRITICALITY ignore TYPE D-RNTI
                                                                                         PRESENCE optional }
      TD 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 mandatory
      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-ID
                                URA-ID,
    sAI
                                SAI,
    qA-Cell
                                GA-Cell
                                            OPTIONAL,
    gA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR.
    maximumAllowedULTxPower
                                MaximumAllowedULTxPower.
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    timingAdjustmentRequired
                                TimingAdjustmentRequired,
                                        UL-CCTrCHInformationList-RL-SetupRspTDD
    ul-CCTrCHInformation
                                                                                     OPTIONAL,
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD,
    dsch-InformationResponse
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
    neighbouring-CellInformationList
                                                Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-SetupRspTDD
UL-InterferenceItem-RL-SetupRspTDD ::= SEOUENCE {
    timeSlot
                                TimeSlot,
    iSCP
                                UL-TimeslotISCP,
                                    ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-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 {
    cCTrCH-ID
                               CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-SetupRspTDD
                                                        UL-Timeslot-InformationList-RL-SetupRspTDD,
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationList-RL-SetupRspTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-RL-SetupRspTDD
UL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
                                    TFCI-Presence,
    tFCI-Presence
```

```
uL-Code-InformationList-RL-SetupRspTDD
                                              UL-Code-InformationList-RL-SetupRspTDD,
   iE-Extensions
                               ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationList-RL-SetupRspTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-SetupRspTDD
UL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   dPCH-ID
   tDD-ChannelisationCode
                               TDD-ChannelisationCode.
                                ProtocolExtensionContainer { {UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
 \texttt{DL-CCTrCHInformationList-RL-SetupRspTDD} ::= \texttt{ProtocolIE-Single-Container} \ \{ \{ \texttt{DL-CCTrCHInformationListIEs-RL-SetupRspTDD} \} \} 
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
   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 ::= {
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
                                                CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
   { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   repetitionPeriod
                               RepetitionPeriod,
   repetitionLength
                                RepetitionLength,
   tDD-DPCHOffset
                                TDD-DPCHOffset,
```

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```
dL-Timeslot-InformationList-RL-SetupRspTDD
                                                    UL-Timeslot-InformationList-RL-SetupRspTDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationList-RL-SetupRspTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-RL-SetupRspTDD
DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   timeSlot
                                 TimeSlot.
   midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
   tFCI-Presence
                                 TFCI-Presence,
   dL-Code-InformationList-RL-SetupRspTDD
                                                DL-Code-InformationList-RL-SetupRspTDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationList-RL-SetupRspTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-SetupRspTDD
DL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   dPCH-ID
                                 DPCH-ID,
   tDD-ChannelisationCode
                                 TDD-ChannelisationCode,
                                 ProtocolExtensionContainer { {DL-Code-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-Code-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD
DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
   dCH-ID
                             DCH-ID,
   bindingID
                             BindingID,
   transportLayerAddress
                                     TransportLayerAddress,
   iE-Extensions
                                 ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
```

```
DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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 ::= SEOUENCE {
    dsch-ID
                           DSCH-ID,
    priorityIndicator
                           PriorityIndicator-RL-SetupRspTDD,
    bindingID
                           BindingID,
    transportLayerAddress TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                           ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD
PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
                                   SchedulingPriorityIndicator,
    schedulingPriorityIndicator
    mAC-c-sh-SDU-Lengths
                                   MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
                                   ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
                                                       CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
     ID id-USCH-InformationListIEs-RL-SetupRspTDD
USCH-InformationListIEs-RL-SetupRspTDD ::= SEOUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
```

```
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
   usch-ID
                              USCH-ID.
   bindingID
                              BindingID.
   transportLayerAddress
                              TransportLayerAddress,
    transportFormatManagement
                              TransportFormatManagement,
                              ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ****************
-- RADIO LINK SETUP FAILURE FDD
*****************
RadioLinkSetupFailureFDD ::= SEOUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupFailureFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
                                                                                                                  OPTIONAL.
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
                                         CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                            PRESENCE optional }
     ID id-CauseLevel-RL-SetupFailureFDD
                                                     CRITICALITY ignore
                                                                          TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                                PRESENCE mandatory } |
                                     CRITICALITY ignore TYPE UL-SIR
     ID id-UL-SIRTarget
                                                                                   PRESENCE optional } |
    ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
                      GeneralCauseList-RL-SetupFailureFDD,
   generalCause
                      RLSpecificCauseList-RL-SetupFailureFDD,
   rLSpecificCause
    . . .
GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}
GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureFDD
                                                 CRITICALITY ignore
                                                                       TYPE GeneralCauseItem-RL-SetupFailureFDD
                                                                                                                                 PRESENCE
mandatory }
```

```
GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE
    cause
    iE-Extensions
                                                ProtocolExtensionContainer { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }
                                                                                                                                OPTIONAL.
GeneralCauseItem-RL-SetupFailureFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}
RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
           id-RLSpecificCauseItem-RL-SetupFailureFDD
                                                            CRITICALITY
                                                                                            TYPE
                                                                                                              RLSpecificCauseItem-RL-SetupFailureFDD
                                                                            ignore
    PRESENCE
               mandatory }
RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                                UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1 { {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-ID
                                RL-ID,
    cause
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList0-1 { 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-ID,
    rL-Set-ID
                                            RL-Set-ID,
    uRA-ID
                                            URA-ID,
    sAI
                                            SAI,
    rSST
                                            RSSI,
    dl-CodeInformation
                                            DL-CodeInformationList-RL-SetupFailureFDD,
    diversityIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    -- 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,
    maxUL-SIR
                                            UL-SIR,
    minUL-SIR
                                            UL-SIR,
    closedlooptimingadjustmentmode
                                            Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                            MaximumAllowedULTxPower,
    maximumDLTxPower
                                            DL-Power,
    minimumDLTxPower
                                            DL-Power,
    dSCH-InformationResponse-RL-SetupFailureFDD
                                                    DSCH-InformationResponseList-RL-SetupFailureFDD
    neighbouring-CellInformationList
                                            Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    . . .
Successful RL-Information Response-RL-Setup Failure FDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-SetupFailureFDD }}
DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD CRITICALITY ignore
                                                                                TYPE DL-CodeInformationListIE-RL-SetupFailureFDD
                                                                                                                                       PRESENCE mandatory
DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupFailureFDD
DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dl-ScramblingCode
                                    DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber.
    transmission-Gap-Pattern-Sequence-Information-Response
                                                                        Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL.
    . . .
DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-SetupFailureFDD }}
DiversityIndicationIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
   DiversityIndicationItem-RL-SetupFailureFDD PRESENCE mandatory }
DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE
   combining
                             Combining-RL-SetupFailureFDD,
   nonCombiningOrFirstRL
                          NonCombiningOrFirstRL-RL-SetupFailureFDD,
   . . .
Combining-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-SetupFailureFDD }}
CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
   CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
   rL-ID
                          ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL.
   iE-Extensions
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}
NonCombiningOrFirstRLIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
   mandatory }
NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEOUENCE
   dCH-InformationResponse-RL-SetupFailureFDD
                                          DCH-InformationResponseList-RL-SetupFailureFDD
                                       ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupFailureFDD
DCH-InformationResponseItem-RL-SetupFailureFDD ::= SEQUENCE {
```

```
dCH-ID
                                DCH-ID.
    bindingID
                                BindingID,
    transportLayerAddress
                                        TransportLaverAddress.
    iE-Extensions
                                    ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}
DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-SetupFailureFDD
                                                                                                                                               PRESENCE
mandatory }
DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupFailureFDD
DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    bindingID
                            BindingID,
    transportLaverAddress
                           TransportLaverAddress.
    iE-Extensions
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Neighbouring-CellInformationList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-
CellInformationItemIE-RL-SetupFailureFDD }}
Neighbouring-CellInformationItemIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-SetupFailureFDD CRITICALITY ignore
                                                                                        TYPE
                                                                                                Neighbouring-CellInformationItem-RL-SetupFailureFDD
PRESENCE
           mandatory }
Neighbouring-CellInformationItem-RL-SetupFailureFDD ::= SEQUENCE
    rNC-ID
                                        RNC-ID.
    cN-PS-DomainIdentifier
                                        CN-PS-DomainIdentifier
                                                                    OPTIONAL,
    cN-CS-DomainIdentifier
                                        CN-CS-DomainIdentifier
                                                                    OPTIONAL,
                                        Per-FDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
    per-FDD-Cell-InformationList
    per-TDD-Cell-InformationList
                                        Per-TDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
Per-FDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-
SetupFailureFDD
Per-FDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
                                        C-ID,
    11ARFCNforN11
                                        UARFCN,
    uARFCNforNd
                                        UARFCN,
    frameOffset
                                        FrameOffset
                                                             OPTIONAL,
    primaryScramblingCode
                                        PrimaryScramblingCode,
    primaryCPICH-Power
                                        PrimaryCPICH-Power
                                                                OPTIONAL.
    cellIndividualOffset
                                        CellIndividualOffset
                                                                OPTIONAL.
    txDiversityIndicator
                                        TxDiversityIndicator,
    sTTD-SupportIndicator
                                        STTD-SupportIndicator
                                                                OPTIONAL,
                                        ClosedLoopModel-SupportIndicator
    closedLoopModel-SupportIndicator
                                                                             OPTIONAL,
    closedLoopMode2-SupportIndicator
                                        ClosedLoopMode2-SupportIndicator
                                                                             OPTIONAL,
                                        ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Per-TDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-
SetupFailureFDD
Per-TDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    syncCase
                                    SyncCase,
    timeSlot
                                    TimeSlot
                                                        OPTIONAL
    -- This IE is present only if Sync Case = Casel -- ,
    sCH-TimeSlot
                                    SCH-TimeSlot
                                                            OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator
                                    Block-STTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power,
                                    ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK SETUP FAILURE TDD
          RadioLinkSetupFailureTDD ::= SEQUENCE {
                                ProtocolIE-Container
                                                         {{RadioLinkSetupFailureTDD-IEs}},
   protocolIEs
   protocolExtensions
                                ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
                                                                                                             OPTIONAL,
RadioLinkSetupFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
     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 ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-SetupFailureTDD }}
GeneralCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
   { ID id-GeneralCauseItem-RL-SetupFailureTDD
                                              CRITICALITY ignore TYPE GeneralCauseItem-RL-SetupFailureTDD
                                                                                                       PRESENCE mandatory }
GeneralCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
   cause
   iE-Extensions
                            ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs} }
                                                                                                     OPTIONAL,
GeneralCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureTDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureTDD }}
RLSpecificCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
   { ID id-RLSpecificCauseItem-RL-SetupFailureTDD
                                                  CRITICALITY ignore TYPE RLSpecificCauseItem-RL-SetupFailureTDD
                                                                                                                PRESENCE mandatory
RLSpecificCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
```

```
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-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD
                                                                   CRITICALITY ignore
                                                                                    TYPE UnsuccessfulRL-InformationResponse-RL-
SetupFailureTDD
                 PRESENCE
                            mandatory
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD ::= SEQUENCE {
                            RL-ID,
   cause
                            Cause,
   iE-Extensions
                                ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkSetupFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ****************
-- RADIO LINK ADDITION REQUEST FDD
  ******************
RadioLinkAdditionRequestFDD ::= SEQUENCE {
                                                        {{RadioLinkAdditionRequestFDD-IEs}},
   protocolIEs
                               ProtocolIE-Container
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                             OPTIONAL,
RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
                                   CRITICALITY reject TYPE UL-SIR
     ID id-UL-SIRTarget
                                                                             PRESENCE mandatory }
     ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
                                          ::= RL-IE-ContainerList1-1 { {RL-Information-RL-AdditionRqstFDD-IEs} }
RL-InformationList-RL-AdditionRqstFDD
```

```
RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
   rL-ID
                                RL-ID,
   C-TD
                                C-ID,
   frameOffset
                                 FrameOffset,
   chipOffset
                                ChipOffset,
   diversityControlField
                                DiversityControlField,
   primaryCPICH-EcNo
                                 PrimaryCPICH-EcNo
                                                      OPTIONAL,
   sSDT-CellID
                                SSDT-CellID
                                                   OPTIONAL.
   transmitDiversityIndicator
                                TransmitDiversityIndicator
                                                              OPTIONAL,
   iE-Extensions
                                 ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
RL-Information-RL-AdditionRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK ADDITION REQUEST TDD
__ *********************
RadioLinkAdditionRequestTDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                          {{RadioLinkAdditionRequestTDD-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}}
                                                                                                                 OPTIONAL,
RadioLinkAdditionRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Information-RL-AdditionRqstTDD CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD
                                                                                                   PRESENCE mandatory },
   . . .
RL-Information-RL-AdditionRgstTDD ::= SEOUENCE {
   rL-ID
                                RL-ID,
   c-ID
                                C-ID,
   frameOffset
                                 FrameOffset,
   diversityControlField
                                DiversityControlField,
   primaryCCPCH-RSCP
                                PrimaryCCPCH-RSCP
                                                      OPTIONAL,
   timeSlot-ISCPList-RL-AdditionRqstTDD
                                       TimeSlot-ISCPList-RL-AdditionRqstTDD
                                                                            OPTIONAL,
```

```
ProtocolExtensionContainer { {RL-Information-RL-AdditionRgstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Information-RL-AdditionRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TimeSlot-ISCPList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPItem-RL-AdditionRspTDD
Timeslot-ISCPItem-RL-AdditionRspTDD ::= SEQUENCE {
   timeSlot
                              TimeSlot,
   dL-TimeslotISCP
                              DL-TimeslotISCP.
   iE-Extensions
                              ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
RadioLinkAdditionRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK ADDITION RESPONSE FDD
        ***************
RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                 ProtocolIE-Container
                                                           {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
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-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }
RL-InformationResponseList-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-ID.
    rL-Set-ID
                                    RL-Set-ID,
    uRA-ID
                                    URA-ID.
    sAI
                                    SAI,
    qA-Cell
                                    GA-Cell
                                                OPTIONAL,
    qA-AccessPointPosition
                                    GA-AccessPointPosition OPTIONAL,
    secondary-CCPCH-Info
                                    Secondary-CCPCH-Info-RL-AdditionRspFDD
                                                                                 OPTIONAL,
    dl-CodeInformation
                                    DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication
                                    DiversityIndication-RL-AdditionRspFDD,
    -- 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-CellInformationList
                                        Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-Info-RL-AdditionRspFDD ::= SEOUENCE {
    fDD-S-CCPCH-Offset
                                            FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
    dl-TFCS
                                            TFCS,
    secondaryCCPCH-SlotFormat
                                            SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                            TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition
                                            MultiplexingPosition,
    sTTD-Indicator
                                            STTD-Indicator,
                                            FACH-PCH-InformationList-RL-AdditionRspFDD,
    fACH-PCH-InformationList
    schedulingInformation
                                            SchedulingInformation-RL-AdditionRspFDD,
    iE-Extensions
                                            ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-PCH-InformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-AdditionRspFDD
```

```
FACH-PCH-InformationItem-RL-AdditionRspFDD ::= SEQUENCE
    transport.Format.Set
                                    TransportFormatSet.
    iE-Extensions
                                    ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-Rep
    segmentInformationList
                                    SegmentInformationList-RL-AdditionRspFDD,
                                    ProtocolExtensionContainer { { SchedulingInformation-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
SchedulingInformation-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-AdditionRspFDD
SegmentInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-POS
                                    IB-SG-POS,
                                    ProtocolExtensionContainer { { SegmentInformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionRspFDD
                                                                                                                                PRESENCE mandatory
DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionRspFDD
DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode
                                   DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber.
    transmission-Gap-Pattern-Sequence-Information-Response
                                                                        Transmission-Gap-Pattern-Sequence-Information-Response
                                                                                                                                  OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    . . .
DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-AdditionRspFDD }}
DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD CRITICALITY ignore TYPE
                                                                               DiversityIndicationItem-RL-AdditionRspFDD PRESENCE mandatory }
DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
   combining
                                 Combining-RL-AdditionRspFDD,
   nonCombining
                                 NonCombining-RL-AdditionRspFDD,
   . . .
Combining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionRspFDD }}
CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                             ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL.
   iE-Extensions
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningIE-RL-AdditionRspFDD }}
NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspFDD PRESENCE mandatory }
NonCombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
   dCH-InformationResponse-RL-AdditionRspFDD
                                                DCH-InformationResponseList-RL-AdditionRspFDD,
   iE-Extensions
                                            ProtocolExtensionContainer { NonCombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
   . . .
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD
DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
   dCH-ID
                             DCH-ID,
```

```
BindingID,
    bindingID
    transportLayerAddress
                                       TransportLayerAddress,
                                   ProtocolExtensionContainer { { DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-
CellInformationItemIE-RL-AdditionRsp }}
Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
    Neighbouring-CellInformationItem-RL-AdditionRsp PRESENCE
                                                                                  TYPE
   mandatory }
Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
   rNC-TD
    cN-PS-DomainIdentifier
                                           CN-PS-DomainIdentifier
                                                                      OPTIONAL,
    cN-CS-DomainIdentifier
                                           CN-CS-DomainIdentifier
                                                                      OPTIONAL,
   per-FDD-Cell-InformationList
                                           Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
   per-TDD-Cell-InformationList
                                           Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
   iE-Extensions
                                           ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    . . .
Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Per-FDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionRsp
Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEOUENCE {
   c-ID
                                       C-ID,
    uARFCNforNu
                                       UARFCN,
    uARFCNforNd
                                       UARFCN,
                                                          OPTIONAL,
    frameOffset
                                       FrameOffset
   primaryScramblingCode
                                       PrimaryScramblingCode,
                                       PrimaryCPICH-Power
   primaryCPICH-Power
                                                                  OPTIONAL,
    cellIndividualOffset
                                       CellIndividualOffset
                                                                  OPTIONAL.
    txDiversityIndicator
                                       TxDiversityIndicator,
    sTTD-SupportIndicator
                                       STTD-SupportIndicator
                                                                  OPTIONAL,
    closedLoopModel-SupportIndicator
                                       ClosedLoopModel-SupportIndicator
                                                                          OPTIONAL,
    closedLoopMode2-SupportIndicator
                                       ClosedLoopMode2-SupportIndicator
                                                                          OPTIONAL,
   iE-Extensions
                                       ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    . . .
Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionRsp
Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEOUENCE {
   c-ID
                                  C-ID,
   uARFCNforNt
                                  UARFCN,
   frameOffset
                                  FrameOffset
                                                     OPTIONAL,
   cellParameterID
                                  CellParameterID,
   syncCase
                                  SyncCase,
   timeSlot
                                  TimeSlot
                                                     OPTIONAL
   -- This IE is present only if Sync Case = Casel -- ,
   sCH-TimeSlot
                                  SCH-TimeSlot
                                                         OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
   block-STTD-Indicator
                                 Block-STTD-Indicator,
    cellIndividualOffset
                                  CellIndividualOffset
                                                         OPTIONAL,
   dPCHConstantValue
                                  DPCHConstantValue OPTIONAL,
   pCCPCH-Power
                                  PCCPCH-Power,
                                  ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
   iE-Extensions
Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK ADDITION RESPONSE TDD
__ *********************
RadioLinkAdditionResponseTDD ::= SEQUENCE {
                                                            {{RadioLinkAdditionResponseTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
                                                                                                                       OPTIONAL,
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
                          CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory }
    { ID id-CriticalityDiagnostics
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional }.
    . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
```

```
rL-ID
                                        RL-ID,
    uRA-ID
                                        URA-ID.
    sAI
                                        SAI.
    gA-Cell
                                        GA-Cell
                                                    OPTIONAL,
    qA-AccessPointPosition
                                        GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot
                                        UL-InterferenceList-RL-AdditionRspTDD.
    timingAdjustmentRequired
                                        TimingAdjustmentRequired,
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
    -- 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.
    minUL-SIR
                                        UL-SIR,
    maxUL-SIR
                                        UL-SIR.
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    dSCH-InformationResponse
                                        DSCH-InformationResponse-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    uSCH-InformationResponse
                                        USCH-InformationResponse-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    neighbouring-CellInformationList
                                        Neighbouring-CellInformationList-RL-AdditionRsp
                                                                                            OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
RL-InformationResponse-RL-AdditionRspTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-AdditionRspTDD
UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot
                                TimeSlot,
    iSCP
                                UL-TimeslotISCP,
                                ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
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 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
```

```
cCTrCH-ID
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                    OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-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-InformationList-RL-AdditionRspTDD
                                                            UL-Timeslot-InformationList-RL-AdditionRspTDD,
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationList-RL-AdditionRspTDD::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF UL-Timeslot-InformationItem-RL-AdditionRspTDD
UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRspTDD
                                                        UL-Code-InformationList-RL-AdditionRspTDD,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationList-RL-AdditionRspTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-AdditionRspTDD
UL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
                                    ProtocolExtensionContainer { {UL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
UL-Code-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 ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                      PRESENCE mandatory
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (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 ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-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-InformationList-RL-AdditionRspTDD
                                                            UL-Timeslot-InformationList-RL-AdditionRspTDD,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationList-RL-AdditionRspTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-RL-AdditionRspTDD
DL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
                                    TFCI-Presence,
    tFCI-Presence
```

```
dL-Code-InformationList-RL-AdditionRspTDD
                                                     DL-Code-InformationList-RL-AdditionRspTDD,
   iE-Extensions
                                  ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationList-RL-AdditionRspTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-AdditionRspTDD
DL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
   dPCH-ID
    tDD-ChannelisationCode
                                  TDD-ChannelisationCode.
                                  ProtocolExtensionContainer { {DL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}
DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    Did-DiversityIndicationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspTDD PRESENCE mandatory
DiversityIndicationItem-RL-AdditionRspTDD
                                              ::= CHOICE {
   combining
                   Combining-RL-AdditionRspTDD
   nonCombining
                  NonCombining-RL-AdditionRspTDD,
Combining-RL-AdditionRspTDD ::=
                                  ProtocolIE-Single-Container {{CombiningIE-RL-AdditionRspTDD}}
CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    TYPE CombiningItem-RL-AdditionRspTDD PRESENCE mandatory }
CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   iE-Extensions
                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                      ProtocolIE-Single-Container {{NonCombiningIE-RL-AdditionRspTDD}}}
NonCombining-RL-AdditionRspTDD ::=
```

```
NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
   NonCombiningItem-RL-AdditionRspTDD ::= SEOUENCE {
   dCH-InformationResponse-RL-AdditionRspTDD
                                                 DCH-InformationResponseList-RL-AdditionRspTDD,
                                 ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD
DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
   bindingID
                                  BindingID,
   transportLayerAddress
                                 TransportLayerAddress,
   iE-Extensions
                                 ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationListIEs-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,
   priorityIndicator
                          PriorityIndicator-RL-AdditionRspTDD,
   diversityIndication
                          DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
   -- diversityIndication present, if CHOICE = nonCombining
   iE-Extensions
                          ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
DSCHInformationItem-RL-AdditionRspTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-AdditionRspTDD
```

```
PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator
                                  SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                   MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
    iE-Extensions
                                   ProtocolExtensionContainer { {PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID
                           BindingID,
    transportLayerAddress TransportLayerAddress,
                           ProtocolExtensionContainer { { DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationListIEs-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
                           ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
__ ********************************
```

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```
-- RADIO LINK ADDITION FAILURE FDD
__ **********************
RadioLinkAdditionFailureFDD ::= SEQUENCE {
    protocolIEs
                                   ProtocolIE-Container
                                                              {{RadioLinkAdditionFailureFDD-IEs}},
   protocolExtensions
                                   ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                                          OPTIONAL,
RadioLinkAdditionFailureFDD-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                              CRITICALITY
                                                                              ignore
                                                                                                TYPE CauseLevel-RL-AdditionFailureFDD
    PRESENCE mandatory }
    { ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                PRESENCE optional },
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause
                       GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause
                       RLSpecificCauseList-RL-AdditionFailureFDD,
GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}
GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD
                                                                              CRITICALITY ignore
       TYPE GeneralCauseItem-RL-AdditionFailureFDD
                                                                              PRESENCE mandatory
GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    cause
    iE-Extensions
                                               ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                                   OPTIONAL,
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}
RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
                                                                              CRITICALITY
    { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD
                                                                                                           TYPE RLSpecificCauseItem-RL-
                                                                                              ignore
AdditionFailureFDD
                                       PRESENCE
                                                   mandatory}
RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                  UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                   SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions
                                               ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs} }
                                                                                                                                      OPTIONAL,
```

```
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { 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,
    cause
                                    Cause,
    iE-Extensions
                                    ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { 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-ID
                                        URA-ID,
    sAI
                                        SAI,
    rSSI
                                        RSSI,
    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
                                        Closedlooptimingadjustmentmode OPTIONAL,
    closedlooptimingadjustmentmode
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
```

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minimumDLTxPower
    neighbouring-CellInformationList
                                        Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionFailureFDD
                                                                                                                                         PRESENCE
mandatory }
DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD
DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response
                                                                        Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL.
DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}
DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE
                                                                                         DiversityIndicationItem-RL-AdditionFailureFDD PRESENCE
mandatory }
DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionFailureFDD,
    nonCombining
                                   NonCombining-RL-AdditionFailureFDD,
    . . .
Combining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionFailureFDD }}
CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore
                                                                        TYPE CombiningItem-RL-AdditionFailureFDD PRESENCE mandatory }
CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
```

```
rL-ID
   iE-Extensions
                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
CombiningItem-RL-AdditionFailureFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}
NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionFailureFDD PRESENCE mandatory }
NonCombiningItem-RL-AdditionFailureFDD ::= SEOUENCE {
    dCH-InformationResponse-RL-AdditionFailureFDD
                                                      DCH-InformationResponseList-RL-AdditionFailureFDD,
                                              ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD
DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE
                              DCH-ID,
   dCH-ID
   bindingID
                              BindingID,
    transportLayerAddress
                                      TransportLayerAddress,
                                  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-
CellInformationItemIE-RL-AdditionFailureFDD }}
Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    Neighbouring-CellInformationItem-RL-AdditionFailureFDD
    PRESENCE mandatory }
Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
   rNC-ID
                                          RNC-ID,
    cN-PS-DomainIdentifier
                                          CN-PS-DomainIdentifier
                                                                     OPTIONAL,
    cN-CS-DomainIdentifier
                                          CN-CS-DomainIdentifier
                                                                     OPTIONAL,
```

```
per-FDD-Cell-InformationList
                                            Per-FDD-Cell-InformationList-RL-AdditionFailureFDD OPTIONAL,
   per-TDD-Cell-InformationList
                                            Per-TDD-Cell-InformationList-RL-AdditionFailureFDD OPTIONAL.
                                            ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Per-FDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1...maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-
AdditionFailureFDD
Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID
                                        C-ID,
    uARFCNforNu
                                        UARFCN,
    uARFCNforNd
                                        UARFCN,
    frameOffset
                                        FrameOffset
                                                             OPTIONAL,
    primaryScramblingCode
                                        PrimaryScramblingCode,
    primaryCPICH-Power
                                        PrimaryCPICH-Power
                                                                OPTIONAL.
    cellIndividualOffset
                                        CellIndividualOffset
                                                                OPTIONAL.
    txDiversityIndicator
                                        TxDiversityIndicator,
    sTTD-SupportIndicator
                                        STTD-SupportIndicator
                                                                OPTIONAL,
    closedLoopModel-SupportIndicator
                                        ClosedLoopModel-SupportIndicator
                                                                             OPTIONAL,
    closedLoopMode2-SupportIndicator
                                        ClosedLoopMode2-SupportIndicator
                                                                             OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    . . .
Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Per-TDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-
AdditionFailureFDD
Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    syncCase
                                    SyncCase,
    timeSlot
                                    TimeSlot
                                                         OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot
                                    SCH-TimeSlot
                                                            OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator
                                    Block-STTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power,
                                    ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
__ *********************
-- RADIO LINK ADDITION FAILURE TDD
       *****************
RadioLinkAdditionFailureTDD ::= SEQUENCE {
                                                       {{RadioLinkAdditionFailureTDD-IEs}},
   protocolIEs
                               ProtocolIE-Container
                               ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}}
   protocolExtensions
                                                                                                            OPTIONAL,
RadioLinkAdditionFailureTDD-IES RNSAP-PROTOCOL-IES ::= {
     { ID id-CriticalityDiagnostics
                                     CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                    PRESENCE optional },
   . . .
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
   generalCause
                    GeneralCauseList-RL-AdditionFailureTDD,
                    RLSpecificCauseList-RL-AdditionFailureTDD,
   rLSpecificCause
   . . .
GeneralCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-AdditionFailureTDD }}
GeneralCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
   { ID id-GeneralCauseItem-RL-AdditionFailureTDD
                                                CRITICALITY ignore TYPE GeneralCauseItem-RL-AdditionFailureTDD
                                                                                                            PRESENCE mandatory }
GeneralCauseItem-RL-AdditionFailureTDD ::= SEQUENCE {
                           ProtocolExtensionContainer { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs} }
   iE-Extensions
                                                                                                    OPTIONAL,
GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
RLSpecificCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureTDD }}
RLSpecificCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
     ID id-RLSpecificCauseItem-RL-AdditionFailureTDD
                                                         CRITICALITY ignore TYPE RLSpecificCauseItem-RL-AdditionFailureTDD
                                                                                                                           PRESENCE mandatory
RLSpecificCauseItem-RL-AdditionFailureTDD ::= SEOUENCE {
    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 ignore TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureTDD PRESENCE mandatory}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
    cause
                              ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkAdditionFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK DELETION REQUEST
  *****************
RadioLinkDeletionRequest ::= SEQUENCE {
                                                            {{RadioLinkDeletionRequest-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}
                                                                                                                   OPTIONAL,
```

```
RadioLinkDeletionRequest-IEs RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory },
                                    ::= RL-IE-ContainerList1 { {RL-Information-RL-DeletionRqst-IEs} }
RL-InformationList-RL-DeletionRqst
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-DeletionRgst ::= SEOUENCE {
                          ProtocolExtensionContainer { {RL-Information-RL-DeletionRgst-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Information-RL-DeletionRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  -- RADIO LINK DELETION RESPONSE
  *****************
RadioLinkDeletionResponse ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{RadioLinkDeletionResponse-IEs}},
   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 ::= SEOUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                                {{RadioLinkReconfigurationPrepareFDD-IEs}},
                                    ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
   protocolExtensions
                                                                                                                                    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-DCH-ModifyList-RL-ReconfPrepFDD
                                                CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepFDD
                                                                                                              PRESENCE optional }
     ID id-DCH-AddList-RL-ReconfPrepFDD
                                                CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepFDD
                                                                                                           PRESENCE optional }
     ID id-DCH-DeleteList-RL-ReconfPrepFDD
                                                CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD
                                                                                                              PRESENCE optional }
     ID id-DSCH-Modify-RL-ReconfPrepFDD
                                                CRITICALITY reject TYPE DSCH-Modify-RL-ReconfPrepFDD
                                                                                                           PRESENCE optional }
     ID id-DSCH-Add-RL-ReconfPrepFDD
                                                CRITICALITY reject TYPE DSCH-Add-RL-ReconfPrepFDD
                                                                                                           PRESENCE optional
                                                CRITICALITY reject TYPE DSCH-Delete-RL-ReconfPrepFDD
     ID id-DSCH-Delete-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-SIRTarget
                                    UL-SIR
                                                            OPTIONAL,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs
                                    MaxNrOfUL-DPCHs
                                                            OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit
                                    PunctureLimit
                                                            OPTIONAL,
    t FCS
                                    TECS
                                           OPTIONAL,
    ul-DPCCH-SlotFormat
                                    UL-DPCCH-SlotFormat
                                                            OPTIONAL,
    diversityMode
                                    DiversityMode
                                                            OPTIONAL,
    sSDT-CellIDLength
                                    SSDT-CellID-Length
                                                            OPTIONAL,
    s-FieldLength
                                    S-FieldLength
                                                            OPTIONAL,
                                    ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEOUENCE {
    tFCS
                                            OPTIONAL,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat
                                                            OPTIONAL,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes
                                                                OPTIONAL,
    tFCI-SignallingMode
                                    TFCI-SignallingMode
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
```

```
-- This IE is present if Slot Format 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 ::= {
DCH-ModifyList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepFDD
DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-FP-Mode
                                        UL-FP-Mode
                                                         OPTIONAL,
    toAWS
                                        TOAWS
                                                    OPTIONAL,
    toAWE
                                        ToAWE
                                                    OPTIONAL,
    dCH-SpecificInformationList
                                        DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
                                        ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-ModifySpecificInformationList-RL-ReconfPrepFDD::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD
DCH-ModifySpecificItem-RL-ReconfPrepFDD::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
    ul-TransportformatSet
                                    TransportFormatSet
                                                             OPTIONAL,
    dl-TransportformatSet
                                                             OPTIONAL,
                                    TransportFormatSet
    allocationRetentionPriority
                                    AllocationRetentionPriority
                                                                     OPTIONAL,
                                                                OPTIONAL,
    frameHandlingPriority
                                    FrameHandlingPriority
    dRACControl
                                    DRACControl
                                                    OPTIONAL,
                                    ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD
DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS,
    toAWE
    dCH-SpecificInformationList
                                        DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
```

```
iE-Extensions
                                        ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
DCH-AddItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
DCH-AddSpecificInformationList-RL-ReconfPrepFDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepFDD
DCH-AddSpecificItem-RL-ReconfPrepFDD::= 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-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-AddSpecificItem-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 ::= {
DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information
                                        DSCH-ModifyInfo-RL-ReconfPrepFDD
                                                                            OPTIONAL,
   pdSCH-RL-ID
                                        RL-ID
                                                                    OPTIONAL,
                                        TFCS
                                                                    OPTIONAL,
    tFCS
                                        ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DSCH-Modify-RL-ReconfPrepFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEOUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyInformationItem-RL-ReconfPrepFDD
DSCH-ModifyInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dsch-id
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                        OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                        OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                        OPTIONAL,
    bLER
                                                                        OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information
                                        DSCH-AddInfo-RL-ReconfPrepFDD,
   pdSCH-RL-ID
                                        RL-ID,
    tFCS
                                        TFCS,
                                        ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DSCH-Add-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-AddInformationItem-RL-ReconfPrepFDD
DSCH-AddInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dsch-ID
                                        DSCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bLER
                                        BLER,
                                        ProtocolExtensionContainer { {DSCH-AddInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DSCH-AddInformationItem-RL-ReconfPrepFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE
    dSCH-Information
                                        DSCH-Info-Delete-RL-ReconfPrepFDD,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
```

```
DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-DeleteInformationItem-RL-REconfPrepFDD
DSCH-DeleteInformationItem-RL-REconfPrepFDD ::= SEQUENCE {
   dsch-id
                                  ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                      ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }
RL-InformationList-RL-ReconfPrepFDD
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,
                            SSDT-Indication
   sSDT-Indication
                                                    OPTIONAL,
                                SSDT-CellID
   sSDT-CellIdentity
                                                OPTIONAL
   -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
   transmitDiversityIndicator
                                TransmitDiversityIndicator
                                                                OPTIONAL,
   -- This IE is present if Diversity Mode IE in UL DPCH Information group is present, unless it is equal to "none"
                                 ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK RECONFIGURATION PREPARE TDD
__ ********************************
```

```
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkReconfigurationPrepareTDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}}
                                                                                                                            OPTIONAL.
RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedOueuingTime
                                     CRITICALITY reject TYPE AllowedOueuingTime
                                                                                           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
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
optional
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                            CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
optional
     ID id-DCH-ModifyList-RL-ReconfPrepTDD
                                             CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepTDD
                                                                                                        PRESENCE optional }
     ID id-DCH-AddList-RL-ReconfPrepTDD
                                             CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepTDD
                                                                                                     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-DSCH-AddList-RL-ReconfPrepTDD
                                             CRITICALITY reject TYPE DSCH-AddList-RL-ReconfPrepTDD
                                                                                                        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-USCH-AddList-RL-ReconfPrepTDD
                                             CRITICALITY reject TYPE USCH-AddList-RL-ReconfPrepTDD
                                                                                                        PRESENCE optional
     ID id-USCH-DeleteList-RL-ReconfPrepTDD
                                             CRITICALITY reject TYPE USCH-DeleteList-RL-ReconfPrepTDD
                                                                                                        PRESENCE optional },
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                 ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs} }
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    . . .
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 ::= {
                                                     ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
```

```
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,
    tFCS
                                TFCS
                                           OPTIONAL,
    tFCI-Coding
                               TFCI-Coding
                                                        OPTIONAL,
    punctureLimit
                                    PunctureLimit
                                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                        ::= CCTrCH-IE-ContainerList0 { {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,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                   ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-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 ::= SEOUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    t.FCS
                                TFCS,
    tFCI-Coding
                                TFCI-Coding,
    punctureLimit
                                    PunctureLimit,
```

```
cCTrCH-TPCList
                                 CCTrCH-TPCAddList-RL-ReconfPrepTDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
   cCTrCH-ID
   iE-Extensions
                                 ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                   ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IES RNSAP-PROTOCOL-IES ::= {
   mandatory },
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   cCTrCH-ID
                             CCTrCH-ID,
                             TFCS
                                        OPTIONAL,
   tFCS
   tFCI-Coding
                             TFCI-Coding
                                                   OPTIONAL,
                                                          OPTIONAL,
   punctureLimit
                                PunctureLimit
   cCTrCH-TPCList
                                CCTrCH-TPCModifyList-RL-ReconfPrepTDD
                                                                         OPTIONAL,
   iE-Extensions
                                ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
                                     ::= SEOUENCE {
   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
                                                   ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs} }
DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
   mandatory },
   . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
   cCTrCH-ID
                             CCTrCH-ID.
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfPrepTDD
                                        ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD
DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
   ul-FP-Mode
                                                    OPTIONAL,
                                     UL-FP-Mode
   toAWS
                                     ToAWS
                                                OPTIONAL,
   t.oAWE
                                     ToAWE
                                                OPTIONAL,
   dCH-SpecificInformationList
                                     DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
                                 ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfPrepTDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD
DCH-ModifySpecificItem-RL-ReconfPrepTDD::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
   ul-CCTrCH-ID
                                 CCTrCH-ID
                                                OPTIONAL,
   dl-CCTrCH-ID
                                 CCTrCH-ID
                                                OPTIONAL,
   ul-TransportformatSet
                                 TransportFormatSet OPTIONAL,
   dl-TransportformatSet
                                 TransportFormatSet OPTIONAL,
   allocationRetentionPriority
                                 AllocationRetentionPriority OPTIONAL,
   frameHandlingPriority
                                 FrameHandlingPriority OPTIONAL,
                                 ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
```

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```
DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfPrepTDD
                                            ::= SEOUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD
DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS,
                                        TOAWE,
    toAWE
    dCH-SpecificInformationList
                                        DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
                                        ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
DCH-AddSpecificInformationList-RL-ReconfPrepTDD::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD
DCH-AddSpecificItem-RL-ReconfPrepTDD::= SEQUENCE {
    dCH-ID
                                        DCH-ID,
    ul-CCTrCH-ID
                                        CCTrCH-ID,
    dl-CCTrCH-ID
                                        CCTrCH-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
    -- This IE is present only if DCH is part of set of Coordinated DCHs
                                        ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfPrepTDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEOUENCE {
    dCH-ID
                                DCH-ID,
    iE-Extensions
                                ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
```

```
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
    dl-ccTrCHID
                                        CCTrCH-ID
                                                                        OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
                                        TransportFormatSet
    transportFormatSet
                                                                        OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                        OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                        OPTIONAL,
    bler
                                        BLER
                                                                        OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-AddItem-RL-ReconfPrepTDD
DSCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
   bLER
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-ReconfPrepTDD
DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dsch-ID
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL.
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 ::= SEOUENCE {
-- R#-1972,CR161r2
    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,
    rb-Info
                                        RB-Info.
    iE-Extensions
                                    ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-AddItem-RL-ReconfPrepTDD
USCH-AddItem-RL-ReconfPrepTDD ::= SEOUENCE {
    uSCH-ID
                                        USCH-ID,
    ul-ccTrCHID
                                        CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bLER
                                        BLER,
    rb-Info
                                        RB-Info,
    iE-Extensions
                                    ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
USCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-ReconfPrepTDD
USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
    iE-Extensions
                                    ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL.
USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
RadioLinkReconfigurationPrepareTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RECONFIGURATION READY FDD
  *****************
RadioLinkReconfigurationReadyFDD ::= SEOUENCE {
                                                              {{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
                                                  ::= RL-IE-ContainerList0 { {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-ID
                                   RL-ID,
   max-UL-SIR
                                   UL-SIR
                                                   OPTIONAL,
   min-UL-SIR
                                   UL-SIR
                                                   OPTIONAL,
                                                   OPTIONAL,
   maximumDLTxPower
                                   DL-Power
   minimumDLTxPower
                                   DL-Power
                                                   OPTIONAL,
                                   Secondary-CCPCH-Info-RL-ReconfReadyFDD
    secondary-CCPCH-Info
                                                                              OPTIONAL,
   dl-CodeInformationList
                                   DL-CodeInformationList-RL-ReconfReadyFDD
                                                                              OPTIONAL,
   dCHsInformationResponseList
                                   DCH-InformationResponseList-RL-ReconfReadyFDD
                                                                                  OPTIONAL,
   dSCHToBeAddedOrModified
                                   DSCHToBeAddedOrModified-RL-ReconfReadyFDD
                                                                                  OPTIONAL,
                                   ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-Info-RL-ReconfReadyFDD ::= SEQUENCE {
```

```
fDD-S-CCPCH-Offset
                                            FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber.
    dl-TFCS
    secondaryCCPCH-SlotFormat
                                            SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                            TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition
                                            MultiplexingPosition,
    sTTD-Indicator
                                            STTD-Indicator,
    fACH-PCH-InformationList
                                            FACH-PCH-InformationList-RL-ReconfReadyFDD,
    schedulingInformation
                                            SchedulingInformation-RL-ReconfReadyFDD,
    iE-Extensions
                                            ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    . . .
Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-PCH-InformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-ReconfReadyFDD
FACH-PCH-InformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
    iE-Extensions
                                    ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-ReconfReadvFDD-ExtIEs} } OPTIONAL.
FACH-PCH-InformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SchedulingInformation-RL-ReconfReadyFDD ::= SEQUENCE {
    iB-SG-Rep
                                        IB-SG-REP,
    segmentInformationList
                                        SegmentInformationList-RL-ReconfReadyFDD,
   iE-Extensions
                                        ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
SchedulingInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SegmentInformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfReadyFDD
SegmentInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    iB-SG-POS
   iE-Extensions
                                    ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    . . .
SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}
DL-CodeInformationListIEs-RL-ReconfReadvFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfReadyFDD
                                                                                                                                PRESENCE mandatory }
DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfReadyFDD
DL-CodeInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dl-ScramblingCode
                                        DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber,
                                                                        Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    transmission-Gap-Pattern-Sequence-Information-Response
    iE-Extensions
                                        ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-ReconfReadyFDD
                                                            ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} }
DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-ReconfReadyFDD
                                                                CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReadyFDD
mandatory }
DCH-InformationResponseListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyFDD
DCH-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
    bindingID
                                    BindingID,
    transportLayerAddress
                                    TransportLayerAddress,
                                    ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCHTOBeAddedOrModified-RL-ReconfReadvFDD ::= ProtocolIE-Single-Container { {DSCHTOBeAddedOrModifiedIEs-RL-ReconfReadvFDD} }
DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD
                                                                                                                               PRESENCE mandatory
DSCHTOBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {
```

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```
DSCHInformation-RL-ReconfReadyFDD,
   dschInformation
   pdSCHCodeMapping PDSCHCodeMapping,
   iE-Extensions
                      ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
DSCHTOBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCHInformation-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-ReconfReadyFDD
DSCHInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
   dsch-ID
                         DSCH-ID,
   priorityIndicator
                         PriorityIndicator-RL-ReconfReadyFDD,
   bindingID
                         BindingID,
   transportLayerAddress TransportLayerAddress,
                          ProtocolExtensionContainer { {DSCHInformation-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
DSCHInformation-RL-ReconfReadyFDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicator-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyFDD
PriorityIndicatorItem-RL-ReconfReadyFDD ::= SEOUENCE {
   schedulingPriorityIndicator
                                 SchedulingPriorityIndicator,
   mAC-c-sh-SDU-Lengths
                                 MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {PriorityIndicatorItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
PriorityIndicatorItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    -- RADIO LINK RECONFIGURATION READY TDD
  ************************
RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
```

```
{RadioLinkReconfigurationReadyTDD-IEs}},
    protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-Extensions}}
                                                                                                                           OPTIONAL,
RadioLinkReconfigurationReadyTDD-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-ReconfReadyTDD
                          CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD
                                                                                            PRESENCE optional
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    . . .
RL-InformationResponse-RL-ReconfReadyTDD ::= SEOUENCE {
   rL-ID
                                  RL-ID.
   max-UL-SIR
                                  UL-SIR
                                                  OPTIONAL,
   min-UL-SIR
                                  UL-SIR
                                                  OPTIONAL,
   maximumDLTxPower
                                  DL-Power
                                                  OPTIONAL,
   minimumDLTxPower
                                  DL-Power
                                                 OPTIONAL,
    ul-CCTrCH-Information
                                  UL-CCTrCH-InformationList-RL-ReconfReadyTDD
                                                                                OPTIONAL,
   dl-CCTrCH-Information
                                  DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
   dCHsInformationResponseList
                                  DCH-InformationResponseList-RL-ReconfReadyTDD
                                                                                OPTIONAL,
                                  DSCHToBeAddedOrModified-RL-ReconfReadyTDD
   dSCHsToBeAddedOrModified
                                                                           OPTIONAL,
    uSCHsToBeAddedOrModified
                                  USCHToBeAddedOrModified-RL-ReconfReadyTDD
                                                                            OPTIONAL,
                                  ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-InformationResponse-RL-ReconfReadyTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::=
UL-CCTrCH-InformationList-RL-ReconfReadyTDD
                                                 ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}}
UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    PRESENCE mandatory
UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD
UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID
                                  CCTrCH-ID,
                                  UL-DPCH-InformationAddList-RL-ReconfReadyTDD
   ul-DPCH-AddInformation
                                                                                        OPTIONAL,
   ul-DPCH-ModifyInformation
                                  UL-DPCH-InformationModifyList-RL-ReconfReadyTDD
                                                                                            OPTIONAL,
                                  UL-DPCH-InformationDeleteList-RL-ReconfReadvTDD
   ul-DPCH-DeleteInformation
                                                                                            OPTIONAL.
   iE-Extensions
                                  ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCH-InformationItem-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
mandatory }
UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
   repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-InformationAddList-RL-ReconfReadyTDD
                                                                UL-Timeslot-InformationAddList-RL-ReconfReadyTDD,
                                    ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationAddList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD
UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence,
    uL-Code-InformationAddList-RL-ReconfReadyTDD
                                                            UL-Code-InformationAddList-RL-ReconfReadyTDD,
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationAddList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationAddItem-RL-ReconfReadyTDD
UL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
                                    ProtocolExtensionContainer { {UL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-Code-InformationAddItem-RL-ReconfReadyTDD-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 ::= {
   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,
                                  ProtocolExtensionContainer { {UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
   timeSlot
                                  TimeSlot,
   midambleShiftAndBurstTvpe
                                             MidambleShiftAndBurstType
                                                                               OPTIONAL,
   tFCI-Presence
                                  TFCI-Presence
                                                        OPTIONAL,
   uL-Code-InformationModifyList-RL-ReconfReadyTDD
                                                        UL-Code-InformationModifyList-RL-ReconfReadyTDD
                                                                                                             OPTIONAL,
                                  ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEOUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModifyItem-RL-ReconfReadyTDD
UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
   dPCH-ID
                                  DPCH-ID,
   tDD-ChannelisationCode
                                  TDD-ChannelisationCode,
   iE-Extensions
                                  ProtocolExtensionContainer { {UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   . . .
UL-Code-InformationModifyItem-RL-ReconfReadyTDD-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 ::= {
```

```
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 ::= {
                                              ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}
DL-CCTrCH-InformationList-RL-ReconfReadyTDD
DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEOUENCE (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,
   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 ::= {
DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}
DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
   { 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-InformationAddList-RL-ReconfReadyTDD
                                                         DL-Timeslot-InformationAddList-RL-ReconfReadyTDD,
   iE-Extensions
                                ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
```

```
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationAddList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD
DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
                                 TimeSlot,
   timeSlot
   midambleShiftAndBurstType
                                            MidambleShiftAndBurstType,
   tFCI-Presence
                                 TFCI-Presence,
   dL-Code-InformationAddList-RL-ReconfReadyTDD
                                                        DL-Code-InformationAddList-RL-ReconfReadyTDD,
                                 ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationAddList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-InformationAddItem-RL-ReconfReadyTDD
DL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE
   dPCH-ID
                                 DPCH-ID.
   tDD-ChannelisationCode
                                 TDD-ChannelisationCode,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
DL-Code-InformationAddItem-RL-ReconfReadyTDD-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 ::= {
    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,
                                 ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
```

```
DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
                                 TimeSlot,
   midambleShiftAndBurstType
                                             MidambleShiftAndBurstType
                                                                               OPTIONAL,
   tFCI-Presence
                                 TFCI-Presence
                                                        OPTIONAL,
   dL-Code-InformationModifyList-RL-ReconfReadyTDD
                                                        DL-Code-InformationModifyList-RL-ReconfReadyTDD
                                                                                                            OPTIONAL,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationModifyList-RL-ReconfReadyTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationModifyItem-RL-ReconfReadyTDD
DL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
   dPCH-ID
                                 DPCH-ID,
   tDD-ChannelisationCode
                                 TDD-ChannelisationCode,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
DL-Code-InformationModifyItem-RL-ReconfReadyTDD-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 ::= {
    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
   iE-Extensions
                                  ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
::= ProtocolIE-Single-Container { { DCH-InformationResponseListIEs-RL-ReconfReadyTDD} }
DCH-InformationResponseList-RL-ReconfReadyTDD
DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::=
    { ID id-DCH-InformationResponseListIE-RL-ReconfReadyTDD
                                                            CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReadyTDD
                                                                                                                                   PRESENCE
mandatory }
DCH-InformationResponseListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyTDD
DCH-InformationResponseItem-RL-ReconfReadyTDD ::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
   bindingID
                                  BindingID,
   transportLayerAddress
                                  TransportLayerAddress,
   iE-Extensions
                                  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
DCH-InformationResponseItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCHToBeAddedOrModified-RL-ReconfReadyTDD
                                                 ::= ProtocolIE-Single-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }
DSCHTOBeAddedOrModifiedIEs-RL-ReconfReadvTDD RNSAP-PROTOCOL-IES ::= {
     PRESENCE mandatory
DSCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD
DSCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
   dsch-ID
                          DSCH-ID,
   transportFormatManagement TransportFormatManagement,
   priorityIndicator
                          PriorityIndicator-RL-ReconfReadyTDD,
   bindingID
                          BindingID,
   transportLayerAddress TransportLayerAddress,
                          ProtocolExtensionContainer { {DSCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicator-RL-ReconfReadyTDD ::= SEOUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyTDD
PriorityIndicatorItem-RL-ReconfReadyTDD ::= SEQUENCE {
   schedulingPriorityIndicator
                                  SchedulingPriorityIndicator,
   mAC-c-sh-SDU-Lengths
                                  MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD,
   iE-Extensions
                                  ProtocolExtensionContainer { {PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
```

```
PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
USCHToBeAddedOrModified-RL-ReconfReadyTDD
                                                 ::= ProtocolIE-Single-Container { { USCHTOBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }
USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
     ID id-USCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE USCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory
USCHTOBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD
USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    uSCH-ID
                          USCH-ID,
    transportFormatManagement TransportFormatManagement,
   bindingID
                          BindingID,
    transportLayerAddress TransportLayerAddress,
                          ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
USCHTOBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   -- RADIO LINK RECONFIGURATION COMMIT
__ *******************************
RadioLinkReconfigurationCommit ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkReconfigurationCommit-IEs}},
                                 ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}}
   protocolExtensions
                                                                                                                        OPTIONAL,
RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CFN
                              CRITICALITY ignore TYPE CFN
                                                                            PRESENCE mandatory } |
                                                                                                             PRESENCE optional },
    { ID id-Active-Pattern-Sequence-Information
                                                 CRITICALITY ignore TYPE Active-Pattern-Sequence-Information
```

```
RadioLinkReconfigurationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK RECONFIGURATION FAILURE
  *****************
RadioLinkReconfigurationFailure ::= SEOUENCE {
   protocolIEs
                                   ProtocolIE-Container
                                                             {{RadioLinkReconfigurationFailure-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationFailure-Extensions}}
                                                                                                                            OPTIONAL.
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 ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-ReconfFailure }}
GeneralCauseIE-RL-ReconfFailure RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-ReconfFailure
                                                                          CRITICALITY ignore
       TYPE GeneralCauseItem-RL-ReconfFailure
                                                                          PRESENCE mandatory }
GeneralCauseItem-RL-ReconfFailure ::= SEQUENCE {
   cause
                                              ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }
   iE-Extensions
                                                                                                                               OPTIONAL,
GeneralCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-ReconfFailure
                                      ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-ReconfFailure }}
RLSpecificCauseIE-RL-ReconfFailure RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-ReconfFailure
                                                                                                     TYPE RLSpecificCauseItem-RL-ReconfFailure
                                                                          CRITICALITY
                                                                                         ignore
                   PRESENCE mandatory }
```

```
RLSpecificCauseItem-RL-ReconfFailure ::= SEQUENCE {
   rL-ReconfigurationFailureList-RL-ReconfFailure
                                                 RL-ReconfigurationFailureList-RL-ReconfFailure
   iE-Extensions
                                                 OPTIONAL,
RLSpecificCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-ReconfigurationFailureList-RL-ReconfFailure ::= RL-IE-ContainerList0 { {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 },
RL-ReconfigurationFailure-RL-ReconfFail ::= SEOUENCE {
   rL-ID
                            RL-ID,
   cause
                            Cause,
   iE-Extensions
                                ProtocolExtensionContainer { {RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs} } OPTIONAL,
RL-ReconfigurationFailure-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  -- RADIO LINK RECONFIGURATION CANCEL
  ************************
RadioLinkReconfigurationCancel ::= SEQUENCE
                                                        {{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 {
                                                       {{RadioLinkReconfigurationRequestFDD-IEs}},
   protocolIEs
                               ProtocolIE-Container
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
                                                                                                                 OPTIONAL,
   . . .
RadioLinkReconfigurationRequestFDD-IES RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                            CRITICALITY reject TYPE AllowedOueuingTime
                                                                                   PRESENCE optional } |
     ID id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                   CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfigstFDD PRESENCE optional }
     ID id-DL-DPCH-Information-RL-ReconfRqstFDD
                                                   CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional }
     ID id-DCH-ModifyList-RL-ReconfRgstFDD
                                         CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfRqstFDD
                                                                                              PRESENCE optional } |
     ID id-DCH-AddList-RL-ReconfRqstFDD
                                         CRITICALITY reject TYPE DCH-AddList-RL-ReconfRqstFDD
                                                                                            PRESENCE optional }
     ID id-DCH-DeleteList-RL-ReconfRqstFDD
                                         CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
                                                                                              PRESENCE optional } |
   UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
   iE-Extensions
                               ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
                              TFCS OPTIONAL,
   tFCI-SignallingMode
                               TFCI-SignallingMode OPTIONAL,
   limitedPowerIncrease
                              LimitedPowerIncrease OPTIONAL,
   iE-Extensions
                               ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfRqstFDD
                                     ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstFDD
DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
   ul-FP-Mode
                                  UL-FP-Mode,
```

```
t.oAWS
                                        ToAWS,
    t.oAWE
                                        TOAWE.
    dCH-SpecificInformationList
                                        DCH-ModifySpecificInformationList-RL-ReconfRgstFDD,
    iE-Extensions
                                    ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
DCH-ModifyItem-RL-ReconfRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstFDD
DCH-ModifySpecificItem-RL-ReconfRgstFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID.
    ul-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    dl-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                    FrameHandlingPriority OPTIONAL,
    dRACControl
                                    DRACControl
                                                    OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    . . .
DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfRqstFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstFDD
DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS,
    toAWE
                                        ToAWE.
    dCH-SpecificInformationList
                                        DCH-AddSpecificInformationList-RL-ReconfRqstFDD,
    iE-Extensions
                                        ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
DCH-AddItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-AddSpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstFDD
DCH-AddSpecificItem-RL-ReconfRastFDD ::=
                                            SEOUENCE {
    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
                                     OE-Selector,
   dRACControl
                                     DRACControl,
                                     ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
DCH-AddSpecificItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRqstFDD
                                         ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
   dCH-ID
                                  ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   . . .
RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   ******************
-- RADIO LINK RECONFIGURATION REQUEST TDD
  RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
                                                           {{RadioLinkReconfigurationRequestTDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 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-ReconfRgstTDD PRESENCE
optional } |
    ID id-DCH-ModifyList-RL-ReconfRastTDD
                                      CRITICALITY reject. TYPE DCH-ModifyList-RL-ReconfRastTDD
                                                                                        PRESENCE optional }
    ID id-DCH-AddList-RL-ReconfRqstTDD
                                      CRITICALITY reject TYPE DCH-AddList-RL-ReconfRqstTDD
                                                                                     PRESENCE optional } |
   ID id-DCH-DeleteList-RL-ReconfRqstTDD
                                      CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstTDD
                                                                                        PRESENCE optional },
   . . .
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD
                                            ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IES RNSAP-PROTOCOL-IES ::= {
   mandatory },
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                         CCTrCH-ID,
   tFCS
   iE-Extensions
                             ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD
                                             ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD-IEs} }
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
   mandatory },
   . . .
UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD ::= SEOUENCE {
   cCTrCH-ID
                         CCTrCH-ID,
                             ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD
                                            ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
   mandatory },
   . . .
```

```
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                             CCTrCH-ID.
                                 ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL.
   iE-Extensions
DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD
                                                   ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD-IEs} }
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
   mandatory },
   . . .
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
   cCTrCH-ID
                             CCTrCH-ID,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL.
DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifyList-RL-ReconfRqstTDD
                                        ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD
DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
   ul-FP-Mode
                                    UL-FP-Mode,
   toAWS
                                    ToAWS,
   t.oAWE
                                    TOAWE,
   dCH-SpecificInformationList
                                    DCH-ModifySpecificInformationList-RL-ReconfRgstTDD,
                                 ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstTDD
DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
   ul-CCTrCH-ID
                                 CCTrCH-ID
                                               OPTIONAL,
```

```
dl-CCTrCH-ID
                                    CCTrCH-ID
                                                    OPTIONAL,
    ul-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    dl-Transport.format.Set.
                                    TransportFormatSet OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                    FrameHandlingPriority OPTIONAL,
                                    ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL.
    iE-Extensions
DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-AddList-RL-ReconfRgstTDD
                                            ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD
DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        ToAWS,
    toAWE
                                        TOAWE,
    dCH-SpecificInformationList
                                        DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
                                    ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DCH-AddItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
DCH-AddSpecificInformationList-RL-ReconfRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRgstTDD
DCH-AddSpecificItem-RL-ReconfRqstTDD ::=
                                            SEQUENCE {
    dCH-ID
                                    DCH-ID,
    trCH-SrcStatisticsDescr
                                    TrCH-SrcStatisticsDescr,
    ul-CCTrCH-ID
                                    CCTrCH-ID,
    dl-CCTrCH-ID
                                    CCTrCH-ID,
    ul-TransportformatSet
                                    TransportFormatSet,
    dl-TransportformatSet
                                    TransportFormatSet,
    ul-BLER
                                    BLER,
    dl-BLER
                                    BLER,
    allocationRetentionPriority
                                    AllocationRetentionPriority,
    frameHandlingPriority
                                    FrameHandlingPriority,
    qE-Selector
                                    QE-Selector
                                                        OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
   iE-Extensions
                                    ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-DeleteList-RL-ReconfRqstTDD
                                          ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD
DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
                              DCH-ID.
                                  ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRgstTDD-ExtIEs} } OPTIONAL.
   iE-Extensions
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     *****************
-- RADIO LINK RECONFIGURATION RESPONSE
__ ********************
RadioLinkReconfigurationResponse ::= SEOUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{RadioLinkReconfigurationResponse-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
                                                                                                                            OPTIONAL,
RadioLinkReconfigurationResponse-IEs RNSAP-PROTOCOL-IES ::= {
                                                     CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRsp
     ID id-RL-InformationResponseList-RL-ReconfRsp
                                                                                                                          PRESENCE optional }
    ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                              PRESENCE optional },
    . . .
                                          ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfRsp-IEs} }
RL-InformationResponseList-RL-ReconfRsp
RL-InformationResponse-RL-ReconfRsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfRsp
                                                     CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRsp
                                                                                                                       PRESENCE mandatory },
   . . .
RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   rL-ID
                                  RL-ID,
   max-UL-SIR
                                  UL-SIR
                                                  OPTIONAL,
   min-UL-SIR
                                  UL-SIR
                                                  OPTIONAL,
   maximumDLTxPower
                                  DL-Power
                                                  OPTIONAL,
   minimumDLTxPower
                                  DL-Power
                                                  OPTIONAL,
    secondary-CCPCH-Info
                                  Secondary-CCPCH-Info-RL-ReconfRsp
                                                                         OPTIONAL,
    dCHsInformationResponseList
                                  DCH-InformationResponseList-RL-ReconfRsp
    dL-CodeInformationList-RL-ReconfResp
                                          DL-CodeInformationList-RL-ReconfRsp OPTIONAL,
```

```
ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Secondary-CCPCH-Info-RL-ReconfRsp ::= SEQUENCE {
    fDD-S-CCPCH-Offset
                                            FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber,
    dl-TFCS
                                            TFCS,
    secondaryCCPCH-SlotFormat
                                            SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                            TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition
                                            MultiplexingPosition,
    sTTD-Indicator
                                            STTD-Indicator,
    fACH-PCH-InformationList
                                            FACH-PCH-InformationList-RL-ReconfRsp,
    schedulingInformation
                                            SchedulingInformation-RL-ReconfRsp,
    iE-Extensions
                                            ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    . . .
Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-PCH-InformationList-RL-ReconfRsp ::= SEOUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-ReconfRsp
FACH-PCH-InformationItem-RL-ReconfRsp ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
    iE-Extensions
                                    ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
FACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SchedulingInformation-RL-ReconfRsp ::= SEQUENCE {
    iB-SG-Rep
                                    IB-SG-REP,
    segmentInformationList
                                    SegmentInformationList-RL-ReconfRsp,
                                    ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    iE-Extensions
        . . .
SchedulingInformation-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
SegmentInformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfRsp
SegmentInformationItem-RL-ReconfRsp ::= SEOUENCE {
   iB-SG-POS
   iE-Extensions
                                . . .
SegmentInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-InformationResponseList-RL-ReconfRsp
                                                  ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRsp} }
DCH-InformationResponseListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
     ID id-DCH-InformationResponseListIE-RL-ReconfRsp
                                                      CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfRsp
                                                                                                                     PRESENCE mandatory
DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfRsp
DCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
   dCH-ID
                                DCH-ID,
   bindingID
                                BindingID,
                                TransportLayerAddress,
   transportLayerAddress
                                ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-RL-ReconfRsp ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfRsp }}
DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    PRESENCE optional }
DL-CodeInformationListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfRsp
DL-CodeInformationItem-RL-ReconfRsp ::= SEQUENCE {
   dl-ScramblingCode
                                    DL-ScramblingCode,
   fdd-DL-ChannelisationCodeNumber
                                    FDD-DL-ChannelisationCodeNumber,
                                                                 Transmission-Gap-Pattern-Sequence-Information-Response,
   transmission-Gap-Pattern-Sequence-Information-Response
                                    ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
   iE-Extensions
```

```
DL-CodeInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RadioLinkReconfigurationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- RADIO LINK FAILURE INDICATION
__ *********************
RadioLinkFailureIndication ::= SEOUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                        {{RadioLinkFailureIndication-IEs}},
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}}
                                                                                                            OPTIONAL.
RadioLinkFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
   Reporting-Object-RL-FailureInd ::= CHOICE {
                        RL-RL-FailureInd,
   rL-Set
                        RL-Set-RL-FailureInd,
                        ::= ProtocolIE-Single-Container { { RLIE-RL-FailureInd } }
RL-RL-FailureInd
RLIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
   { ID id-RLItem-RL-FailureInd
                                   CRITICALITY ignore TYPE RLItem-RL-FailureInd
                                                                                PRESENCE mandatory }
RLItem-RL-FailureInd ::= SEQUENCE {
   rL-InformationList-RL-FailureInd
                                      RL-InformationList-RL-FailureInd,
   iE-Extensions
                                      ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs} } OPTIONAL,
RLItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                      ::= RL-IE-ContainerList1 { {RL-Information-RL-FailureInd-IEs} }
RL-InformationList-RL-FailureInd
```

```
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 {
    cause
                               Cause.
                                    ProtocolExtensionContainer { {RL-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-RL-FailureInd
                               ::= ProtocolIE-Single-Container { { RL-SetIE-RL-FailureInd } }
RL-SetIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-RL-FailureInd
                                           CRITICALITY ignore TYPE RL-SetItem-RL-FailureInd
                                                                                               PRESENCE mandatory }
RL-SetItem-RL-FailureInd ::= SEOUENCE {
    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-IE-ContainerList { {RL-Set-Information-RL-FailureInd-IEs} }
RL-Set-InformationList-RL-FailureInd
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,
                                    ProtocolExtensionContainer { {RL-Set-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-Set-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
RadioLinkFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RADIO LINK RESTORE INDICATION
            RadioLinkRestoreIndication ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                       {{RadioLinkRestoreIndication-IEs}},
   protocolExtensions
                               ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}
                                                                                                           OPTIONAL,
RadioLinkRestoreIndication-IEs RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory
   . . .
Reporting-Object-RL-RestoreInd ::= CHOICE {
                        RL-RL-RestoreInd,
   rL-Set
                        RL-Set-RL-RestoreInd,
RL-RL-RestoreInd
                        ::= ProtocolIE-Single-Container { { RLIE-RL-RestoreInd } }
RLIE-RL-RestoreInd RNSAP-PROTOCOL-IES ::= {
   { ID id-RLItem-RL-RestoreInd
                                  CRITICALITY ignore TYPE RLItem-RL-RestoreInd
                                                                                PRESENCE mandatory }
RLItem-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-IE-ContainerList1 { {RL-Information-RL-RestoreInd-IEs} }
RL-InformationList-RL-RestoreInd
RL-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
                                     CRITICALITY ignore TYPE RL-Information-RL-RestoreInd
   { ID id-RL-Information-RL-RestoreInd
                                                                                             PRESENCE mandatory
   . . .
RL-Information-RL-RestoreInd ::= SEQUENCE {
```

```
rL-ID
   iE-Extensions
                                  ProtocolExtensionContainer { {RL-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
RL-Information-RL-RestoreInd-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
                              ::= ProtocolIE-Single-Container { { RL-SetIE-RL-RestoreInd } }
RL-Set-RL-RestoreInd
RL-SetIE-RL-RestoreInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-RL-RestoreInd
                                         CRITICALITY ignore TYPE RL-SetItem-RL-RestoreInd
                                                                                             PRESENCE mandatory }
RL-SetItem-RL-RestoreInd ::= SEQUENCE {
   rL-Set-InformationList-RL-RestoreInd
                                         RL-Set-InformationList-RL-RestoreInd,
    iE-Extensions
                                         ProtocolExtensionContainer { { RL-SetItem-RL-RestoreInd-ExtIEs} } OPTIONAL,
    . . .
RL-SetItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-InformationList-RL-RestoreInd
                                             ::= RL-Set-IE-ContainerList { {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 ::= SEOUENCE {
   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 ::= {
__ *********************
-- DOWNLINK POWER CONTROL REQUEST
__ ********************************
```

```
DL-PowerControlRequest ::= SEQUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                               {{DL-PowerControlRequest-IEs}}.
    protocolExtensions
                                    ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}}
                                                                                                                       OPTIONAL,
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 is present only 'Adjustment Type' equals to 'Common'
    { ID id-DLReferencePowerList-DL-PC-Rgst
                                               CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rgst PRESENCE conditional}
    -- This IE is present only 'Adjustment Type' equals to 'Individual'
    { ID id-MaxAdjustmentStep
                                       CRITICALITY ignore TYPE MaxAdjustmentStep
                                                                                            PRESENCE conditional }
    -- This IE is present only ''Adjustment Type " equals to 'Common' or 'Individual'
    { ID id-AdjustmentPeriod
                                       CRITICALITY ignore TYPE AdjustmentPeriod
                                                                                            PRESENCE conditional } |
    -- This IE is present only ''Adjustment Type " equals to 'Common' or 'Individual'
    { ID id-AdjustmentRatio
                                   CRITICALITY ignore TYPE ScaledAdjustmentRatio
                                                                                            PRESENCE conditional },
    -- This IE is present only ''Adjustment Type " equals to 'Common' or 'Individual'
                                                   ::= RL-IE-ContainerList1 { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs} }
DL-ReferencePowerInformationList-DL-PC-Rqst
DL-ReferencePowerInformation-DL-PC-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-ReferencePowerInformation-DL-PC-Rgst CRITICALITY ignore TYPE DL-ReferencePowerInformation-DL-PC-Rgst PRESENCE mandatory },
DL-ReferencePowerInformation-DL-PC-Rgst ::= SEQUENCE {
   rI.-ID
                               RL-ID,
    dl-Reference-Power
                                       DL-Power,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs} } OPTIONAL,
DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
PhysicalChannelReconfigurationRequestFDD ::= SEOUENCE {
```

```
{PhysicalChannelReconfigurationRequestFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
   protocolExtensions
                                 ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestFDD-Extensions}}
                                                                                                                               OPTIONAL,
PhysicalChannelReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    RL-Information-PhyChReconfRqstFDD ::= SEQUENCE {
                             RL-ID,
   dl-CodeInformations
                                 DL-CodeInformationList-PhyChReconfRgstFDD,
   iE-Extensions
                                 ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
RL-Information-PhyChReconfRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CodeInformationList-PhyChReconfRqstFDD
                                            ::= ProtocolIE-Single-Container { {DL-CodeInformationListIEs-PhyChReconfRqstFDD} }
DL-CodeInformationListIEs-PhyChReconfRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-PhyChReconfRqstFDD CRITICALITY notify TYPE DL-CodeInformationListIE-PhyChReconfRqstFDD PRESENCE mandatory
DL-CodeInformationListIE-PhyChReconfRqstFDD ::= SEQUENCE (SIZE(1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-PhyChReconfRqstFDD
DL-CodeInformationItem-PhyChReconfRqstFDD ::= SEQUENCE {
   dl-scramblingCode
                                DL-ScramblingCode,
   fDD-DL-ChannelisationCodeNumber
                                        FDD-DL-ChannelisationCodeNumber,
   iE-Extensions
                                 ProtocolExtensionContainer { {DL-CodeInformationItem-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
   . . .
DL-CodeInformationItem-PhyChReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PhysicalChannelReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST TDD
PhysicalChannelReconfigurationRequestTDD ::= SEQUENCE {
```

```
{PhysicalChannelReconfigurationRequestTDD-IEs}},
    protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                  ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestTDD-Extensions}}
                                                                                                                                   OPTIONAL,
PhysicalChannelReconfigurationRequestTDD-IES RNSAP-PROTOCOL-IES ::= {
    PRESENCE mandatory
    . . .
RL-Information-PhyChReconfRqstTDD ::= SEQUENCE {
                              RL-ID,
   ul-CCTrCH-Information
                                      UL-CCTrCH-InformationList-PhyChReconfRgstTDD,
   dl-CCTrCH-Information
                                      DL-CCTrCH-InformationList-PhyChReconfRqstTDD,
                                  ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Information-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                 ::= ProtocolIE-Single-Container { {UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }
UL-CCTrCH-InformationList-PhyChReconfRqstTDD
UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                             CRITICALITY reject TYPE UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                                                                                     PRESENCE
mandatory }
UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-PhyChReconfRqstTDD
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-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-PhyChReconfRqstTDD
                                                                                                                          PRESENCE mandatory }
UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
   repetitionPeriod
                                  RepetitionPeriod
                                                         OPTIONAL,
    repetitionLength
                                  RepetitionLength
                                                         OPTIONAL,
                                  TDD-DPCHOffset
    tDD-DPCHOffset
                                                         OPTIONAL,
```

```
uL-Timeslot-InformationList-PhyChReconfRqstTDD
                                                            UL-Timeslot-InformationList-PhyChReconfRqstTDD OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
UL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Timeslot-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-PhyChReconfRqstTDD
UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot.
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType
                                                                                OPTIONAL.
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    uL-Code-InformationList-PhyChReconfRqstTDD
                                                        UL-Code-InformationList-PhyChReconfRgstTDD
                                                                                                        OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-PhyChReconfRqstTDD
UL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
                                    ProtocolExtensionContainer { {UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                    ::= ProtocolIE-Single-Container { { DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }
DL-CCTrCH-InformationList-PhyChReconfRgstTDD
DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                CRITICALITY reject TYPE DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD
                                                                                                                                            PRESENCE
mandatory }
DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRgstTDD
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-PhyChReconfRgstTDD,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
```

```
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
DL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-PhyChReconfRqstTDD
                                                                                                                                PRESENCE mandatory }
DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod
                                                            OPTIONAL,
    repetitionLength
                                    RepetitionLength
                                                            OPTIONAL,
    tDD-DPCHOffset
                                    TDD-DPCHOffset
                                                            OPTIONAL,
                                                            DL-Timeslot-InformationList-PhyChReconfRqstTDD
    dL-Timeslot-InformationList-PhyChReconfRqstTDD
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Timeslot-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRqstTDD
DL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
                                                MidambleShiftAndBurstType
    midambleShiftAndBurstType
                                                                                OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                        OPTIONAL,
    dL-Code-InformationList-PhyChReconfRqstTDD
                                                        DL-Code-InformationList-PhyChReconfRqstTDD
                                                                                                        OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    . . .
DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationList-PhyChReconfRqstTDD::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-PhyChReconfRqstTDD
DL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
DL-Code-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
PhysicalChannelReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- PHYSICAL CHANNEL RECONFIGURATION COMMAND
  PhysicalChannelReconfigurationCommand ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{PhysicalChannelReconfigurationCommand-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{PhysicalChannelReconfigurationCommand-Extensions}}
                                                                                                                         OPTIONAL,
PhysicalChannelReconfigurationCommand-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-CFN
                            CRITICALITY ignore TYPE CFN
                                                                        PRESENCE mandatory } |
   { ID id-CriticalityDiagnostics
                                       CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                        PRESENCE optional },
   . . .
PhysicalChannelReconfigurationCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    *****************
-- PHYSICAL CHANNEL RECONFIGURATION FAILURE
  *****************
PhysicalChannelReconfigurationFailure ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{PhysicalChannelReconfigurationFailure-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{PhysicalChannelReconfigurationFailure-Extensions}}
                                                                                                                         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 ::= {
```

```
-- UPLINK SIGNALLING TRANSFER INDICATION FDD
__ *********************
UplinkSignallingTransferIndicationFDD ::= SEOUENCE {
                                                      {{UplinkSignallingTransferIndicationFDD-IEs}},
   protocolIEs
                              ProtocolIE-Container
   protocolExtensions
                              ProtocolExtensionContainer {{UplinkSignallingTransferIndicationFDD-Extensions}}
                                                                                                                  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
                              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
                                        CRITICALITY ignore TYPE STTD-SupportIndicator PRESENCE mandatory }
     ID id-STTD-SupportIndicator
     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-ID
                              CRITICALITY ignore TYPE URA-ID
                                                                       PRESENCE mandatory } |
     ID id-MultipleURAsIndicator
                                     CRITICALITY ignore TYPE MultipleURAsIndicator
                                                                                   PRESENCE mandatory } |
    ID id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD
                                                                                                                    PRESENCE
optional },
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD ::= SEQUENCE {
   rNC-ID
                              RNC-ID,
   iE-Extensions
                              ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD-ExtIEs} } OPTIONAL,
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UplinkSignallingTransferIndicationFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- UPLINK SIGNALLING TRANSFER INDICATION TDD
```

```
__ *********************
UplinkSignallingTransferIndicationTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{UplinkSignallingTransferIndicationTDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{UplinkSignallingTransferIndicationTDD-Extensions}}
                                                                                                                                OPTIONAL.
UplinkSignallingTransferIndicationTDD-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
                                  CRITICALITY ignore TYPE C-RNTI
                                                                                PRESENCE mandatory
     ID id-S-RNTI
                                  CRITICALITY ignore TYPE S-RNTI
                                                                                PRESENCE mandatory
     ID id-D-RNTI
                                  CRITICALITY ignore TYPE D-RNTI
                                                                                PRESENCE optional
     ID id-L3-Information
                                      CRITICALITY ignore TYPE L3-Information
                                                                                       PRESENCE mandatory }
                                                                                             PRESENCE optional
     ID id-CN-PS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-PS-DomainIdentifier
     ID id-CN-CS-DomainIdentifier
                                         CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                             PRESENCE optional
     ID id-URA-ID
                                  CRITICALITY ignore TYPE URA-ID
                                                                                PRESENCE mandatory }
     ID id-MultipleURAsIndicator
                                         CRITICALITY ignore TYPE MultipleURAsIndicator
                                                                                             PRESENCE mandatory }
     ID id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD
                                                                                                                                  PRESENCE
optional
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD ::= SEQUENCE {
   rNC-ID
                                  ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
UplinkSignallingTransferIndicationTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- DOWNLINK SIGNALLING TRANSFER REQUEST
  *****************
DownlinkSignallingTransferRequest ::= SEQUENCE {
                                                            {{DownlinkSignallingTransferRequest-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{DownlinkSignallingTransferRequest-Extensions}}
   protocolExtensions
                                                                                                                            OPTIONAL
```

```
DownlinkSignallingTransferRequest-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-C-ID
                 CRITICALITY ignore TYPE C-ID
                                                                     PRESENCE mandatory
    ID id-D-RNTI
                             CRITICALITY ignore TYPE D-RNTI
                                                                     PRESENCE mandatory }
    ID id-L3-Information
                                CRITICALITY ignore TYPE L3-Information
                                                                            PRESENCE mandatory } |
   ID id-D-RNTI-ReleaseIndication
                                                                                   PRESENCE mandatory },
                               CRITICALITY ignore TYPE D-RNTI-ReleaseIndication
DownlinkSignallingTransferRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  *****************
-- RELOCATION COMMIT
  ****************
RelocationCommit ::= SEQUENCE {
   protocolIEs
                             ProtocolIE-Container
                                                    {{RelocationCommit-IEs}},
                             ProtocolExtensionContainer {{RelocationCommit-Extensions}}
   protocolExtensions
                                                                                             OPTIONAL,
RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
                             CRITICALITY ignore TYPE D-RNTI
    ID id-D-RNTI
                                                                     PRESENCE optional } |
   PRESENCE optional },
RelocationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- PAGING REQUEST
__ ********************************
PagingRequest ::= SEQUENCE {
                                                    {{PagingRequest-IEs}},
   protocolIEs
                             ProtocolIE-Container
                             ProtocolExtensionContainer {{PagingRequest-Extensions}}
   protocolExtensions
                                                                                           OPTIONAL,
PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-PagingArea-PagingRgst
                                    CRITICALITY ignore TYPE PagingArea-PagingRgst
                                                                                 PRESENCE mandatory } |
   { ID id-SRNC-ID
                             CRITICALITY ignore TYPE RNC-ID
                                                                     PRESENCE mandatory } |
```

PRESENCE mandatory }.

```
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
PagingArea-PagingRqst ::= CHOICE {
                       URA-PagingRgst,
   cell
                        Cell-PagingRqst,
   . . .
URA-PagingRgst ::= ProtocolIE-Single-Container {{ URAIE-PagingRgst }}
URAIE-PagingRgst RNSAP-PROTOCOL-IES ::= {
   URAItem-PagingRgst ::= SEOUENCE {
   uRA-ID
   iE-Extensions
                           ProtocolExtensionContainer { { URAItem-PagingRqst-ExtIEs} } OPTIONAL,
URAItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Cell-PagingRqst ::= ProtocolIE-Single-Container {{ CellIE-PagingRqst }}
CellIE-PagingRgst RNSAP-PROTOCOL-IES ::= {
   PRESENCE mandatory }
CellItem-PagingRqst ::= SEQUENCE {
   c-ID
                           ProtocolExtensionContainer { { CellItem-PagingRqst-ExtIEs} } OPTIONAL,
   iE-Extensions
CellItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PagingRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- DEDICATED MEASUREMENT INITIATION REQUEST
```

```
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs
                                    ProtocolIE-Container
                                                               {{DedicatedMeasurementInitiationRequest-IEs}},
                                   ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}
    protocolExtensions
                                                                                                                                      OPTIONAL,
DedicatedMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
                                       CRITICALITY reject TYPE MeasurementID
                                                                                           PRESENCE mandatory }
     ID id-MeasurementID
    { ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory }
    -- This IE represents both the Dedicated Measurement Object Type IE and the choice based on the Dedicated Measurement Object Type
    -- as described in the tabular message format in subclause 9.1.
     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 },
DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
                           RL-DM-Rqst,
   rLS
                           RL-Set-DM-Rqst,
    allRL
                           All-RL-DM-Rast,
    allRLS
                           All-RL-Set-DM-Rgst,
RL-DM-Rqst ::= ProtocolIE-Single-Container { { RLIE-DM-Rqst } }
RLIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rqst
                               CRITICALITY reject TYPE RLItem-DM-Rqst
                                                                           PRESENCE mandatory }
RLItem-DM-Rgst ::= SEOUENCE {
    rL-InformationList-DM-Rqst
                                   RL-InformationList-DM-Rqst,
    iE-Extensions
                                    ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs} } OPTIONAL,
        . . .
RLItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                           ::= RL-IE-ContainerList1 { {RL-Information-DM-Rgst-IEs} }
RL-InformationList-DM-Rgst
RL-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst
                                           CRITICALITY reject TYPE RL-InformationItem-DM-Rqst
                                                                                                    PRESENCE mandatory },
```

```
RL-InformationItem-DM-Rgst ::= SEOUENCE {
   rL-ID
                               RL-ID.
    dPCH-ID
                               DPCH-ID
                                            OPTIONAL.
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
RL-InformationItem-DM-Rgst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RL-Set-DM-Rqst ::= ProtocolIE-Single-Container { { RL-SetIE-DM-Rqst } }
RL-SetIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
                                    CRITICALITY reject TYPE RL-SetItem-DM-Rgst
                                                                                    PRESENCE mandatory
    { ID id-RL-SetItem-DM-Rast
RL-SetItem-DM-Rgst ::= 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-Rgst
                                                ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rqst-IEs} }
RL-Set-Information-DM-Rgst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rqst
                                                CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rqst
                                                                                                             PRESENCE mandatory },
RL-Set-InformationItem-DM-Rgst ::= SEOUENCE
    rL-Set-ID
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
RL-Set-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
All-RL-DM-Rqst ::= ProtocolIE-Single-Container {{ All-RLIE-DM-Rqst }}
All-RLIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
    { ID id-All-RLItem-DM-Rqst CRITICALITY ignore TYPE All-RLItem-DM-Rqst
                                                                                PRESENCE mandatory }
All-RLItem-DM-Rqst ::= NULL
```

```
All-RL-Set-DM-Rqst ::= ProtocolIE-Single-Container {{ All-RLIE-Set-DM-Rqst }}
All-RLIE-Set-DM-Rgst RNSAP-PROTOCOL-IES ::= {
   TYPE
                                                                                 PRESENCE mandatory }
                                                         All-RLItem-Set-DM-Rgst
All-RLItem-Set-DM-Rqst ::= NULL
DedicatedMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- DEDICATED MEASUREMENT INITIATION RESPONSE
  DedicatedMeasurementInitiationResponse ::= SEQUENCE {
   protocolIEs
                              ProtocolIE-Container
                                                      {{DedicatedMeasurementInitiationResponse-IEs}},
   protocolExtensions
                              ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
                                                                                                                   OPTIONAL,
DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                 CRITICALITY ignore TYPE MeasurementID
                                                                              PRESENCE mandatory }
     CRITICALITY ignore TYPE CFN
                                                                    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 ::= ProtocolIE-Single-Container {{ RLIE-DM-Rsp }}
RLIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
                           CRITICALITY ignore
   { ID id-RLItem-DM-Rsp
                                               TYPE
                                                      RLItem-DM-Rsp
                                                                       PRESENCE
                                                                                 mandatory }
RLItem-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 ::= ProtocolIE-Single-Container {{ RL-SetIE-DM-Rsp }}
RL-SetIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
                                    CRITICALITY ignore
    { ID id-RL-SetItem-DM-Rsp
                                                            TYPE
                                                                    RL-SetItem-DM-Rsp
                                                                                            PRESENCE mandatory
RL-SetItem-DM-Rsp ::= SEOUENCE {
    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 ::= {
                                            ::= RL-IE-ContainerList1 { {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,
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
    iE-Extensions
RL-InformationItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rsp-IEs} }
RL-Set-InformationList-DM-Rsp
RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
                                                CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rsp
    { ID id-RL-Set-InformationItem-DM-Rsp
                                                                                                          PRESENCE mandatory },
RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID
    dedicatedMeasurementValue
                                    DedicatedMeasurementValue,
```

```
ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rspns-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rspns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DedicatedMeasurementInitiationResponse-Extensions 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 } |
    ID id-Cause
                              CRITICALITY ignore TYPE Cause
                                                                        PRESENCE mandatory } |
   { ID id-CriticalityDiagnostics
                                     CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                    PRESENCE optional },
DedicatedMeasurementInitiationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   ****************
-- DEDICATED MEASUREMENT REPORT
     *****************
DedicatedMeasurementReport ::= SEQUENCE {
   protocolIEs
                                                      {{DedicatedMeasurementReport-IEs}},
                              ProtocolIE-Container
                              ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
   protocolExtensions
                                                                                                         OPTIONAL,
DedicatedMeasurementReport-IES RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                                                              PRESENCE mandatory } |
                                  CRITICALITY ignore TYPE MeasurementID
     { ID id-CFN
                           CRITICALITY ignore TYPE CFN
                                                                    PRESENCE optional },
```

```
DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
                           RL-DM-Rprt,
    rLS
                            RL-Set-DM-Rort,
    allRL
                           RL-DM-Rprt,
    allRLS
                           RL-Set-DM-Rprt,
RL-DM-Rprt ::= ProtocolIE-Single-Container {{ RLIE-DM-Rprt }}
RLIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rprt
                                CRITICALITY ignore
                                                                                                mandatory }
                                                        TYPE
                                                                RLItem-DM-Rprt
                                                                                    PRESENCE
RLItem-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 ::= ProtocolIE-Single-Container {{ RL-SetIE-DM-Rprt }}
RL-SetIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rprt
                                  CRITICALITY ignore
                                                            TYPE
                                                                  RL-SetItem-DM-Rprt
                                                                                            PRESENCE mandatory
RL-SetItem-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-IE-ContainerList1 { {RL-Information-DM-Rprt-IEs} }
RL-InformationList-DM-Rprt
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-ID
                               DPCH-ID
                                                    OPTIONAL.
    measurementAvailabilityIndicator
                                       MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                                ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rprt-IEs} }
RL-Set-InformationList-DM-Rprt
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 ::= SEQUENCE
    rL-Set-ID
    measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
                                    ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
   iE-Extensions
RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MeasurementAvailabilityIndicator-DedicatedMeasurementReport::= CHOICE {
    measurementAvailable
                                MeasurementAvailable-DedicatedMeasurementReport,
    measurementnotAvailable
                                MeasurementnotAvailable-DedicatedMeasurementReport,
    . . .
MeasurementAvailable-DedicatedMeasurementReport::= ProtocolIE-Single-Container {{ MeasurementAvailableIE-DedicatedMeasurementReport }}
MeasurementAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport PRESENCE
mandatory}
MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE
    dedicatedmeasurementValue
                                    DedicatedMeasurementValue,
                                    ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExTIEs} }
    ie-Extensions
                                                                                                                                         OPTIONAL,
MeasurementAvailableItem-DedicatedMeasurementReport-ExTIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
MeasurementnotAvailable-DedicatedMeasurementReport::= ProtocolIE-Single-Container {{ MeasurementnotAvailableIE-DedicatedMeasurementReport }}
MeasurementnotAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
   { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-DedicatedMeasurementReport
   PRESENCE mandatory }
MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL
DedicatedMeasurementReport-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    -- DEDICATED MEASUREMENT TERMINATION REQUEST
  DedicatedMeasurementTerminationRequest ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                        {{DedicatedMeasurementTerminationRequest-IEs}},
                               ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
   protocolExtensions
                                                                                                                       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 ::= SEQUENCE {
   protocolIEs
                               ProtocolIE-Container
                                                        {{DedicatedMeasurementFailureIndication-IEs}},
                               ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
DedicatedMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-MeasurementID
                                   CRITICALITY ignore TYPE MeasurementID
                                                                                 PRESENCE mandatory } |
                                                                          PRESENCE mandatory },
    ID id-Cause
                               CRITICALITY ignore TYPE Cause
```

```
DedicatedMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ******************
  COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST
  ******************
CommonTransportChannelResourcesReleaseRequest ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                          {{CommonTransportChannelResourcesReleaseRequest-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{CommonTransportChannelResourcesReleaseRequest-Extensions}}
                                                                                                                                   OPTIONAL,
CommonTransportChannelResourcesReleaseRequest-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                 CRITICALITY ignore TYPE D-RNTI
                                                                             PRESENCE mandatory }
    { ID id-C-RNTI
                                 CRITICALITY ignore TYPE C-RNTI
                                                                             PRESENCE optional },
CommonTransportChannelResourcesReleaseRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- COMMON TRANSPORT CHANNEL RESOURCES REQUEST
  *****************
CommonTransportChannelResourcesRequest ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                          {{CommonTransportChannelResourcesRequest-IEs}},
   protocolExtensions
                                 ProtocolExtensionContainer {{CommonTransportChannelResourcesRequest-Extensions}}
                                                                                                                  OPTIONAL,
CommonTransportChannelResourcesRequest-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                CRITICALITY reject TYPE D-RNTI
                                                                             PRESENCE mandatory
                                                                             PRESENCE optional
     ID id-C-ID
                                 CRITICALITY reject TYPE C-ID
     ID id-TransportBearerRequestIndicator
                                            CRITICALITY reject TYPE TransportBearerRequestIndicator
                                                                                                    PRESENCE mandatory } |
    { ID id-TransportBearerID
                                    CRITICALITY reject TYPE TransportBearerID
                                                                                        PRESENCE mandatory },
   . . .
CommonTransportChannelResourcesRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
```

```
__ *********************
  COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD
   ****************
CommonTransportChannelResourcesResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{CommonTransportChannelResourcesResponseFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseFDD-Extensions}}
                                                                                                                          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
optional } |
    { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD
                                                                 CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD
    PRESENCE optional
    { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD
                                                                 CRITICALITY ignore TYPE RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD
    PRESENCE optional } |
     ID id-URA-ID
                                  CRITICALITY ignore TYPE URA-ID
                                                                                 PRESENCE optional } |
                                          CRITICALITY ignore TYPE MultipleURAsIndicator
     ID id-MultipleURAsIndicator
                                                                                              PRESENCE optional } |
     ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD
    PRESENCE optional } |
     ID id-TransportLayerAddress
                                          CRITICALITY ignore TYPE TransportLayerAddress
                                                                                              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 {
   priorityIndicatorAndInitialWindowSizes
                                              PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD,
                                  ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-
ResourceRspFDD }}
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-CTCH-
ResourceRspFDD PRESENCE mandatory }
PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-CTCH-
ResourceRspFDD
```

```
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD ::= SEQUENCE {
    fACH-PriorityIndicator
                                       SchedulingPriorityIndicator.
    mAC-c-sh-SDU-Lengths
                                       MAC-c-sh-SDU-LengthList-CTCH-ResourceRspFDD,
    fACH-InitialWindowSize
                                       FACH-InitialWindowSize.
                                    ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL.
    iE-Extensions
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD }}
MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
     ID id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDDPRESENCE mandatory
MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD
MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD ::= SEQUENCE {
    mAC-c-sh-SDU-Length
                                   MAC-c-sh-SDU-Length,
    iE-Extensions
                                    ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    . . .
MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset
                                   FDD-S-CCPCH-Offset,
    dl-ScrablingCode
                                   DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                           FDD-DL-ChannelisationCodeNumber.
    dl-TFCS
    secondaryCCPCH-SlotFormat
                                                SecondaryCCPCH-SlotFormat,
    multiplexingPosition
                                       MultiplexingPosition,
    sTTD-Indicator
                                    STTD-Indicator,
    priorityIndicatorAndInitialWindowSizeList PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD,
                                    ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-
option-CTCH-ResourceRspFDD }}
```

```
PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD CRITICALITY ignore TYPE
    PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD PRESENCE mandatory }
PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-option-
CTCH-ResourceRspFDD
PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
                                  SchedulingPriorityIndicator,
    fACH-PriorityIndicator
   mAC-c-sh-SDU-Lengths
                                      MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspFDD,
   fACH-InitialWindowSize
                                  FACH-InitialWindowSize,
   iE-Extensions
                                  ProtocolExtensionContainer { { PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs} }
OPTIONAL,
PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD }}
MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    ID id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD
                                                                CRITICALITY ignore TYPE MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD
    PRESENCE mandatory }
MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD ::= SEOUENCE (SIZE (1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-LengthItem-option-CTCH-
ResourceRspFDD
MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
   mAC-c-sh-SDU-Length
                                  MAC-c-sh-SDU-Length,
   iE-Extensions
                                  ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD ::= SEQUENCE
   preambleSignatures
                                      PreambleSignatures,
   pRACH-MinimumSpreadingFactor
                                      PRACH-MinimumSpreadingFactor,
    scramblingCodeNumber
                                      ScramblingCodeNumber,
   punctureLimit
                                      PunctureLimit,
   rACH-SubChannelNumbers
                                      RACH-SubChannelNumbers,
    iE-Extensions
```

```
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD ::= SEOUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD ::= SEOUENCE {
   rNC-ID
                                 RNC-ID,
                                 ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
    CommonTransportChannelResourcesResponseTDD ::= SEOUENCE {
                                                           {{CommonTransportChannelResourcesResponseTDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
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
optional } |
    { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD
   PRESENCE optional
    { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD
                                                               CRITICALITY ignore TYPE RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD
   PRESENCE optional } |
     ID id-URA-ID
                                 CRITICALITY ignore TYPE URA-ID
                                                                              PRESENCE optional } |
     ID id-MultipleURAsIndicator
                                         CRITICALITY ignore TYPE MultipleURAsIndicator
                                                                                           PRESENCE optional } |
     ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD
   PRESENCE optional } |
     ID id-TransportLayerAddress
                                         CRITICALITY ignore TYPE TransportLayerAddress
                                                                                           PRESENCE optional } |
                                 CRITICALITY ignore TYPE BindingID
                                                                                  PRESENCE optional } |
     ID id-BindingID
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional },
```

```
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizes
                                               PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD.
    iE-Extensions
                                    ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-
ResourceRspTDD }}
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-CTCH-
ResourceRspTDD PRESENCE mandatory }
PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-CTCH-
ResourceRspTDD
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD ::= SEOUENCE {
    fACH-PriorityIndicator
                                   SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                       MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD,
    fACH-InitialWindowSize
                                    FACH-InitialWindowSize,
                                    ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD }}
MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDDPRESENCE mandatory
MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD
MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    mAC-c-sh-SDU-Length
                                   MAC-c-sh-SDU-Length,
    iE-Extensions
                                   ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    . . .
MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE
    dl-TFCS
    secondaryCCPCHs
                                    SecondaryCCPCHList-CTCH-ResourceRspTDD,
                                    ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL.
    iE-Extensions
FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ SecondaryCCPCHListIEs-CTCH-ResourceRspTDD }}
SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
                                                      CRITICALITY ignore TYPE
    { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD
                                                                                    SecondaryCCPCHListIE-CTCH-ResourceRspTDD PRESENCE mandatory
SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF SecondaryCCPCHItem-CTCH-ResourceRspTDD
SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    tDD-ChannelisationCode
                                        TDD-ChannelisationCode,
    timeSlot
                                TimeSlot,
    midambleShiftAndBurstType
                                                MidambleShiftAndBurstType,
    tDD-PhysicalChannelOffset
                                        TDD-PhysicalChannelOffset,
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                   RepetitionLength,
    priorityIndicatorAndInitialWindowSizeList-option
                                                       PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD,
                                    ProtocolExtensionContainer { {SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-
option-CTCH-ResourceRspTDD }}
PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
    PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD PRESENCE mandatory }
PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-option-
CTCH-ResourceRspTDD
PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    fACH-PriorityIndicator
                                    SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                        MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD,
```

```
fACH-InitialWindowSize
                                  FACH-InitialWindowSize,
   iE-Extensions
                                  ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs} }
OPTIONAL.
PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspTDD }}
MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
     ID id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD
                                                               CRITICALITY ignore TYPE MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD
    PRESENCE mandatory }
MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD ::= SEOUENCE (SIZE (1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-LengthItem-option-CTCH-
ResourceRspTDD
MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
   mAC-c-sh-SDU-Length
                                 MAC-c-sh-SDU-Length,
                                  ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
                                 TDD-ChannelisationCode,
   tDD-ChannelisationCode
   timeSlot
                                  TimeSlot,
   pRACH-Midamble
                                  PRACH-Midamble OPTIONAL,
   iE-Extensions
                                  RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-litem-CTCH-ResourceRspTDD
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD ::= SEOUENCE {
   rNC-ID
                                  RNC-ID,
   iE-Extensions
                                  ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL.
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ******************
-- COMMON TRANSPORT CHANNEL RESOURCES FAILURE
  *****************
CommonTransportChannelResourcesFailure ::= SEQUENCE {
                                                  {{CommonTransportChannelResourcesFailure-IEs}},
   protocolIEs
   protocolExtensions
                            ProtocolExtensionContainer {{CommonTransportChannelResourcesFailure-Extensions}}
                                                                                                  OPTIONAL,
CommonTransportChannelResourcesFailure-IEs RNSAP-PROTOCOL-IES ::= {
    ID id-S-RNTI
                           CRITICALITY ignore TYPE 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 {
   protocolIEs
                                                 {{CompressedModeCommand-IEs}},
                            ProtocolIE-Container
                            ProtocolExtensionContainer {{CompressedModeCommand-Extensions}}
   protocolExtensions
                                                                                             OPTIONAL,
CompressedModeCommand-IEs RNSAP-PROTOCOL-IES ::= {
```

```
CompressedModeCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- ERROR INDICATION
__ *********************
ErrorIndication ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{ErrorIndication-IEs}},
                                ProtocolExtensionContainer {{ErrorIndication-Extensions}}
   protocolExtensions
                                                                                                      OPTIONAL,
ErrorIndication-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-Cause
                                CRITICALITY ignore TYPE Cause
                                                                            PRESENCE conditional
   -- At least either of Cause IE or Criticality IE shall be present --
   { ID id-CriticalityDiagnostics
                                                                                        PRESENCE conditional
                                       CRITICALITY ignore TYPE CriticalityDiagnostics
   -- At least either of Cause IE or Criticality IE shall be present --
ErrorIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
-- PRIVATE MESSAGE
  *****************
PrivateMessage ::= SEQUENCE {
   privateIEs
               PrivateIE-Container {{PrivateMessage-IEs}},
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
   maxCodeNumComp-1,
   maxNoTFCIGroups,
   maxNoCodeGroups,
   maxNrOfErrors,
   maxRateMatching,
   maxNrOfPoints,
   maxNrOfTFCs,
   maxNrOfTFs,
   maxCTFC,
   maxTFCI1Combs,
   maxTFCI2Combs,
   maxTFCI2Combs-1,
   maxTGPS,
    maxTTI-Count
FROM RNSAP-Constants
    Criticality,
    ProcedureID,
    ProtocolIE-ID,
   TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes
    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
-- A
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
    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 ::= {
AdjustmentPeriod
                            ::= INTEGER(1..300)
-- Unit Frame
AllocationRetentionPriority
                                ::= FrameHandlingPriority
AllowedOueuingTime
                            ::= INTEGER (0..60)
-- seconds
-- B
BetaCD ::= INTEGER (0..15)
BindingID
                       ::= OCTET STRING (SIZE (1..4,...))
                        ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
Block-STTD-Indicator
                       ::= ENUMERATED {
    active,
    inactive
-- C
Cause ::= CHOICE {
    radioNetwork
                        CauseRadioNetwork,
    transport
                        CauseTransport,
    protocol
                        CauseProtocol,
    misc
                        CauseMisc,
CauseMisc ::= ENUMERATED {
    control-processing-overload,
   hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    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,
    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,
    dch-not-supported,
    dsch-not-supported,
    usch-not-supported,
    rach-fach-cpch-not-supported,
    ul-spreading-factor-not-supported,
    dl-spreading-factor-not-supported,
    cm-not-supported,
    transaction-not-supported-by-destination-node-b,
CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    . . .
C-ID
                        ::= INTEGER (0..65535)
CCTrCH-ID
                        ::= INTEGER (0..15)
CellIndividualOffset
                        ::= INTEGER (-20..20)
```

```
::= INTEGER (0..127,...)
CellParameterID
CFN
                    ::= INTEGER (0..255)
ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
ChipOffset
                        ::= INTEGER (0..38399)
ClosedLoopModel-SupportIndicator
                                    ::= ENUMERATED {
    closedLoop-Model-Supported,
    closedLoop-Model-not-Supported
ClosedLoopMode2-SupportIndicator
                                     ::= ENUMERATED
    closedLoop-Mode2-Supported,
    closedLoop-Mode2-not-Supported
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
CodeNumber ::= INTEGER (0..maxCodeNumComp-1)
CodingRate ::= ENUMERATED {
   half,
    third,
CRC-Size
                        ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
CriticalityDiagnostics ::= SEQUENCE {
    procedureID
                                ProcedureID
                                                     OPTIONAL,
    triggeringMessage
                                TriggeringMessage
                                                         OPTIONAL,
    criticalityResponse
                                Criticality
                                                         OPTIONAL,
    transactionID
                                TransactionID
                                                         OPTIONAL,
```

```
iEsCriticalityResponses
                                CriticalityDiagnostics-IE-List,
    iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
                                Criticality,
        criticalityResponse
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber
                                                        OPTIONAL.
       iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CN-CS-DomainIdentifier ::= SEQUENCE {
    aL-MM-ID
                        PLMN-ID,
    1AC
                        LAC,
    iE-Extensions
                        ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs} } OPTIONAL
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CN-PS-DomainIdentifier ::= SEQUENCE {
                        PLMN-ID,
    pLMN-ID
    lac
                        LAC,
    rAC
    iE-Extensions
                        ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
C-RNTI
                        ::= INTEGER (0..65535)
-- D
DCH-ID
                        ::= INTEGER (0..255)
DedicatedMeasurementType ::= ENUMERATED {
    sir,
```

```
sir-error,
    transmitted-code-power,
    rx-timing-deviation,
    round-trip-time,
    . . .
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value
                       SIR-Value,
    sIR-ErrorValue
                           SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
                        RSCP-Value, -- TDD only
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only
    roundTripTime
                       Round-Trip-Time-Value, -- FDD only
DeltaSIR
                       ::= INTEGER (0..30)
-- Step 0.1 dB, Range 0..3 dB.
DiversityControlField
                               ::= ENUMERATED {
    may,
    must,
    must-not
DiversityMode
                           ::= ENUMERATED {
    none,
    sTTD,
    closedLoopMode1,
    closedLoopMode2,
DL-DPCH-SlotFormat
                           ::= INTEGER (0..16,...)
                        ::= INTEGER (-350..150)
DL-Power
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
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-TimeslotISCP
                    ::= INTEGER (0..91)
-- According to mapping in [24]
Downlink-Compressed-Mode-Method
                                   ::= ENUMERATED {
    puncturing,
    sFdiv2,
   higher-layer-scheduling,
DPCH-ID
                       ::= INTEGER (0..239)
DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB
DRACControl
               ::= ENUMERATED {
    requested,
    not-requested
DRXCycleLengthCoefficient
                                     ::= INTEGER (2..12)
DSCH-ID
                       ::= INTEGER (0..255)
-- E
EventA ::= SEQUENCE {
   measurementTreshold
                           MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime
                           ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
   iE-Extensions
EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
EventB ::= SEQUENCE {
                           MeasurementThreshold,
    measurementTreshold
    measurementHysteresisTime MeasurementHysteresisTime
                           ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,
    iE-Extensions
```

```
EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
EventC ::= SEOUENCE {
    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 {
                                MeasurementThreshold,
   measurementThreshold1
                                MeasurementThreshold
    measurementThreshold2
                                                                OPTIONAL,
                                                                OPTIONAL,
    measurementHysteresisTime
                               MeasurementHysteresisTime
                            ReportPeriodicity
                                                        OPTIONAL,
    reportPeriodicity
    iE-Extensions
                            ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
EventF ::= SEQUENCE {
   measurementThreshold1
                                MeasurementThreshold,
    measurementThreshold2
                                MeasurementThreshold
                                                                OPTIONAL,
   measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                        OPTIONAL,
                            ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
    iE-Extensions
EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
-- F
FACH-InitialWindowSize
                                ::= INTEGER { unlimited(255) } (0..255)
-- Number of frames MAC-c-sh SDUs.
-- 255 = Unlimited number of FACH data frames
FDD-DL-ChannelisationCodeNumber
                                   ::= INTEGER (0..511)
-- According to the mapping in [27]. The maximum value is equal to the DL spreading factor -1--
                            ::= INTEGER (0..149)
FDD-S-CCPCH-Offset
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-sizel,
    step-size1-5,
    step-size2,
    . . .
SchedulingPriorityIndicator
                                        ::= INTEGER { lowest(0), highest(15) } (0..15)
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS
FrameHandlingPriority
                                ::= INTEGER { lowest(0), highest(15) } (0..15)
FrameOffset
                        ::= INTEGER (0..255)
-- Frames
-- G
GapLength
                        ::= INTEGER (1..14)
-- Unit Slot
GapDuration
                        ::= INTEGER (1..144,...)
-- Unit Frame
GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF
    SEQUENCE {
        geographicalCoordinate
                                    GeographicalCoordinate,
       iE-Extensions
                                ProtocolExtensionContainer { GA-Cell-ExtIEs} } OPTIONAL,
GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
GA-AccessPointPosition ::= SEQUENCE {
   geographicalCoordinate
                             GeographicalCoordinate,
   iE-Extensions
                  ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
GA-AccessPoint-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
GeographicalCoordinate ::= SEQUENCE {
   latitude
                   INTEGER (0..8388607),
   longitude
                  INTEGER (-8388608..8388607),
                     ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
   iE-Extensions
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
-- H
-- I
IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed
IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
IMSI
          ::= OCTET STRING (SIZE(3..8))
-- J
-- K
LAC
                  ::= OCTET STRING (SIZE (2)) -- (EXCEPT ('0000'H | 'FFFF'H))
LimitedPowerIncrease ::= ENUMERATED {
   used,
   not-used
L3-Information
                       ::= BIT STRING
-- M
MaxNrOfUL-DPCHs
                         ::= INTEGER (1..6)
```

```
MAC-c-sh-SDU-Length
                            ::= INTEGER (1..5000)
MaximumAllowedULTxPower
                            ::= INTEGER (-50..33)
MaxNrDLPhysicalchannels
                            ::= INTEGER (1..224)
MaxNrTimeslots
                            ::= INTEGER (1..14)
MaxNrULPhysicalchannels
                            ::= INTEGER (1..2)
MaxTFCIvalue
                            ::= INTEGER (1..1023)
MeasurementAvailabilityIndicator
                                    ::= ENUMERATED
    measurementAvailable,
    measurementnotAvailable
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)
MinimumSpreadingFactor
                            ::= INTEGER (1..16)
Multi-code-info
                            ::= INTEGER (1..16)
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,
    round-trip-time
                                     Round-Trip-Time-IncrDecrThres,
MeasurementThreshold
                                 ::= CHOICE {
    sir
                                     SIR-Value,
                                     SIR-Error-Value,
    sir-error
    transmitted-code-power
                                     Transmitted-Code-Power-Value,
                                     RSCP-Value,
    rx-timing-deviation
                                     Rx-Timing-Deviation-Value,
    round-trip-time
                                     Round-Trip-Time-Value,
    . . .
MidambleShiftAndBurstType ::=
                                     CHOICE {
                                         CHOICE {
    type1
        defaultMidamble
                                             NULL,
        commonMidamble
                                             NULL,
        ueSpecificMidamble
                                             MidambleShiftLong
                                         CHOICE {
        defaultMidamble
                                             NULL,
        commonMidamble
                                             NULL,
        ueSpecificMidamble
                                             MidambleShiftShort
    },
    type3
                                         CHOICE {
        defaultMidamble
                                             NULL,
        ueSpecificMidamble
                                             MidambleShiftLong
MidambleShiftLong ::=
                                     INTEGER (0..15)
MidambleShiftShort ::=
                                     INTEGER (0..5)
MinUL-ChannelisationCodeLength
                                     ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
```

```
-- N
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks
                            ::= INTEGER (0..512)
-- O
-- P
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
PDSCHCodeMapping ::= SEQUENCE {
    dL-ScramblingCode
                            DL-ScramblingCode,
    signallingMethod
                            PDSCHCodeMapping-SignallingMethod,
    iE-Extensions
                            ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs} } OPTIONAL,
    . . .
PDSCHCodeMapping-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PDSCHCodeMapping-SignallingMethod ::= CHOICE {
    pDSCHCodeMapping-SignallingMethod-CodeRange
                                                    PDSCHCodeMapping-SignallingMethod-CodeRange,
    pDSCHCodeMapping-SignallingMethod-TFCIRange
                                                    PDSCHCodeMapping-SignallingMethod-TFCIRange,
    pDSCHCodeMapping-SignallingMethod-Explicit
                                                    PDSCHCodeMapping-SignallingMethod-Explicit
PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEOUENCE (SIZE (1..maxNoCodeGroups)) OF
    SEQUENCE {
        spreadingFactor
                                SpreadingFactor,
                                Multi-code-info,
        multi-code-info
        start-CodeNumber
                                CodeNumber,
        stop-CodeNumber
                                CodeNumber,
PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
                                MaxTFCIvalue,
        maxTFCIvalue
```

```
spreadingFactor
                                SpreadingFactor,
       multi-code-info
                                Multi-code-info,
        codeNumber
                                CodeNumber,
PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEOUENCE {
        spreadingFactor
                                SpreadingFactor,
        multi-code-info
                                Multi-code-info,
        codeNumber
                                CodeNumber,
        . . .
Periodic ::= SEQUENCE {
    reportPeriodicity
                            ReportPeriodicity,
                            ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    iE-Extensions
Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
PLMN-ID ::= OCTET STRING (SIZE(3))
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
PowerOffset
                        ::= INTEGER (0..24)
PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct
PRACH-MinimumSpreadingFactor
                                ::= ENUMERATED {
    v32,
    v64,
    v128,
    v256,
    . . .
PreambleSignatures
                           ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 See ref. [21] --
PrimaryCPICH-Power
                            ::= INTEGER (-100..500)
```

```
-- step 0.1 (Range -10.0..50.0) Unit is dBm
PrimaryCPICH-EcNo
                          ::= INTEGER (-30..30)
PrimaryCCPCH-RSCP
                         ::= INTEGER (0..91)
-- According to maping in [14]
PrimaryScramblingCode
                               ::= INTEGER (0..511)
PropagationDelay
                           ::= INTEGER (0..255)
PunctureLimit
                           ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100
OE-Selector ::= ENUMERATED {
    selected,
    non-selected
-- R
RAC
                   ::= OCTET STRING (SIZE(1))
RACH-SubChannelNumbers
                               ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11
RANAP-RelocationInformation
                               ::= BIT STRING
RateMatchingAttribute
                               ::= INTEGER (1..maxRateMatching)
RB-Identity
                               ::= INTEGER (0..31)
RefTFCNumber ::= INTEGER (0..15)
RepetitionLength
                           ::= INTEGER (1..63)
RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64
RepetitionNumber ::= INTEGER (1..256)
ReportCharacteristics ::= CHOICE {
```

```
NULL,
    onDemand
    periodic
                        Periodic,
    event.A
                        EventA.
    eventB
                        EventB,
    eventC
                        EventC,
    eventD
                        EventD,
    eventE
                        EventE,
    eventF
                        EventF,
ReportPeriodicity ::= CHOICE {
                            INTEGER (1..6000,...),
-- 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
                    INTEGER (1..60,...)
-- Unit min, Step 1min
RL-ID
                        ::= INTEGER (0..31)
RL-Set-ID
                        ::= INTEGER (0..31)
RNC-ID
                        ::= INTEGER (0..4095)
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)
Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215
RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [14]
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)
RSSI
                    ::= INTEGER (0..621)
-- According to mapping in [11]
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)
-- S
SAC
                    ::= OCTET STRING (SIZE (2))
SAI ::= SEQUENCE {
    pLMN-ID
                        PLMN-ID,
    lAC
                        LAC,
    sAC
                        SAC,
    iE-Extensions
                        ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
```

```
SAI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
               ::= INTEGER (0..6)
SCH-TimeSlot
ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
ScramblingCodeNumber ::= INTEGER (0..15)
SecondInterleavingMode ::= ENUMERATED {
   frame-related,
   timeslot-related,
SIR-Error-Value ::= INTEGER (0..125)
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value
                     ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SecondaryCCPCH-SlotFormat ::= INTEGER (0..17,...)
-- refer to 25.211
                ::= TimeSlot
S-FieldLength
                   ::= ENUMERATED {
   v1,
   v2.
   . . .
SpreadingFactor ::= INTEGER (4 | 8 | 16 | 32 | 64 | 128 | 256)
S-RNTI
                     ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
SSDT-CellID ::= ENUMERATED {
   a,
   b,
   C,
   d,
   e,
   f,
   g,
```

```
SSDT-CellID-Length ::= ENUMERATED {
    medium,
    long
SSDT-Indication ::= ENUMERATED {
    sSDT-active-in-the-UE,
    sSDT-not-active-in-the-UE
SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-supported,
    sSDT-not-supported
STTD-Indicator ::= ENUMERATED {
    active,
    inactive
STTD-SupportIndicator ::= ENUMERATED {
    sTTD-Supported,
    sTTD-not-Supported
SyncCase ::= INTEGER (1..2,...)
-- Т
TDD-ChannelisationCode
                                ::= ENUMERATED {
    chCodeldiv1.
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
```

```
chCode16div3,
    chCodel6div4,
    chCode16div5,
    chCodel6div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                        INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
TDD-PhysicalChannelOffset
                                ::= INTEGER (0..63)
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-sizel,
    step-size2,
    step-size3,
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
TFCI-Presence ::= ENUMERATED {
    present,
    not-present
TFCI-SignallingMode ::= ENUMERATED {
    normal,
    split
TGD
                    ::= INTEGER (0|15..269)
```

```
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
TGPRC
                    ::= INTEGER (0..63)
-- 0 = infinity
TGPSID
                    ::= INTEGER (1.. maxTGPS)
TGSN
                    ::= INTEGER (0..14)
TimeSlot
                        ::= INTEGER (0..14)
TimingAdjustmentRequired ::= ENUMERATED {
    noAdjustment,
    adjustmentRequired
ToAWE
                        ::= INTEGER (0..2559)
ToAWS
                        ::= INTEGER (0..1279)
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGSN
                        TGSN,
        tGL1
                        GapLength,
        tGL2
                        GapLength OPTIONAL,
        tGD
                        TGD,
        tGPL1
                        GapDuration,
        tGPL2
                        GapDuration OPTIONAL,
        uL-DL-mode
                        UL-DL-mode,
        downlink-Compressed-Mode-Method
                                            Downlink-Compressed-Mode-Method
                                                                                 OPTIONAL,
            -- This IE is only 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 is only 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-Information-Response ::= ENUMERATED{
   code-change,
   nocode-change
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGPRC
                        TGPRC,
        tGCFN
                        CFN,
                            ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransmissionTimeInterval ::= ENUMERATED {
   msec-10,
   msec-20,
   msec-40,
   msec-80,
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
TransportBearerID
                       ::= INTEGER (0..4095)
TransportBearerRequestIndicator
                                    ::= ENUMERATED
    bearer-requested,
    bearer-not-requested
TransportBlockSize
                            ::= INTEGER (0..5000)
-- Unit is bits
```

```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEOUENCE {
       betaC
                              BetaCD,
       betaD
                              BetaCD,
       refTFCNumber
                              RefTFCNumber
                                             OPTIONAL
                          RefTFCNumber
    refTFCNumber
TFCS ::= SEQUENCE {
    tFCSvalues
                       CHOICE {
       no-Split-in-TFCI
                                  TFCS-TFCSList,
       split-in-TFCI
                                  SEQUENCE {
           transportFormatCombination-DCH
                                             TFCS-DCHList,
           signallingMethod
                                             CHOICE {
               tFCI-Range
                                             TFCS-MapingOnDSCHList,
               explicit
                                                 TFCS-DSCHList
                       ProtocolExtensionContainer { { TFCS-ExtIEs} }
    iE-Extensions
                                                                        OPTIONAL,
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEQUENCE {
       cTFC
                          TFCS-CTFC,
                       TransportFormatCombination-Beta
                                                         OPTIONAL,
                          ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} }
                                                                                    OPTIONAL,
       iE-Extensions
TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TFCS-CTFC ::= INTEGER (0..maxCTFC)
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
    SEQUENCE {
       cTFC
                          TFCS-CTFC,
       iE-Extensions
                          OPTIONAL,
    . . .
TFCS-DCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
       maxTFCI-field2-Value
                                    TFCS-MaxTFCI-field2-Value,
       cTFC-DSCH
                               TFCS-CTFC,
                                    ProtocolExtensionContainer { { TFCS-MapingOnDSCHList-ExtIEs} }
       iE-Extensions
                                                                                                        OPTIONAL,
TFCS-MapingOnDSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEQUENCE {
       cTFC-DSCH
                               TFCS-CTFC,
       iE-Extensions
                                    ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} }
                                                                                                OPTIONAL,
TFCS-DSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet ::= SEQUENCE {
                           TransportFormatSet-DynamicPartList,
    dynamicParts
    semi-staticPart
                           TransportFormatSet-Semi-staticPart,
   iE-Extensions
                           ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    . . .
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
    SEOUENCE {
       nrOfTransportBlocks
                               NrOfTransportBlocks,
       transportBlockSize
                               TransportBlockSize
                                                        OPTIONAL
       -- This IE is only present if nrOfTransportBlocks is greater than 0 --,
                           TransportFormatSet-ModeDP,
       iE-Extensions
                                ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
        . . .
TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
TransportFormatSet-ModeDP ::= CHOICE {
                       TransmissionTimeIntervalList,
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent --
    notApplicable
TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
    SEQUENCE {
                                    TransmissionTimeInterval,
        transmissionTimeInterval
                                ProtocolExtensionContainer { {TransmissionTimeIntervalList-ExtIEs} } OPTIONAL,
       iE-Extensions
TransmissionTimeIntervalList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
    cell-based,
    ue-based,
    . . .
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTime
                           TransmissionTimeInterval,
    channelCoding
                           ChannelCodingType,
    codingRate
                        CodingRate
                                                OPTIONAL
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute
                                RateMatchingAttribute,
                       CRC-Size,
    cRC-Size
                        TransportFormatSet-ModeSSP,
    mode
    iE-Extensions
                            ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,
TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
TransportFormatSet-ModeSSP ::= CHOICE {
                    SecondInterleavingMode,
    t.dd
    notApplicable
                           NULL,
```

```
TransportLayerAddress
                                ::= BIT STRING (SIZE(1..160, ...))
TrCH-SrcStatisticsDescr
                           ::= ENUMERATED {
    speech.
   rRC,
    unknown,
TxDiversityIndicator
                      ::= ENUMERATED {
    true,
    false
                       ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
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,
                            ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    iE-Extensions
UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
UL-DPCCH-SlotFormat
                          ::= INTEGER (0..5,...)
UL-FP-Mode ::= ENUMERATED {
   normal,
    silent,
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-TimeslotISCP
                     ::= INTEGER (0..81)
-- According to mapping in [14]
URA-ID
                       ::= INTEGER (0..65535)
USCH-ID
                      ::= INTEGER (0..255)
-- V
-- X
-- Y
END
```

9.3.5 Common Definitions

```
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
Criticality
                ::= ENUMERATED { reject, ignore, notify }
                ::= ENUMERATED { optional, conditional, mandatory }
Presence
PrivateIE-ID
                ::= CHOICE {
   local
                        INTEGER (0..65535),
    global
                        OBJECT IDENTIFIER
                    ::= INTEGER (0..255)
ProcedureCode
ProcedureID ::= SEQUENCE {
    procedureCode
                            ProcedureCode,
    ddMode
                        ENUMERATED { tdd, fdd, common }
ProtocolExtensionID ::= INTEGER (0..65535)
ProtocolIE-ID
                   ::= INTEGER (0..65535)
TransactionID
                    ::= CHOICE {
    shortTransActionId INTEGER (0..127),
    longTransActionId INTEGER (0..32767)
TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome, outcome }
END
```

9.3.6 Constant Definitions

BEGIN

```
*****************
  Elementary Procedures
  *****************
id-commonTransportChannelResourcesInitiationFDD
                                                   INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD
                                                   INTEGER ::= 1
id-commonTransportChannelResourcesRelease
                                                   INTEGER ::= 2
id-compressedModeCommandFDD
                                                   INTEGER ::= 4
id-downlinkPowerControl
                                                   INTEGER ::= 6
id-downlinkSignallingTransfer
                                                   INTEGER ::= 7
id-errorIndication
                                                   INTEGER ::= 8
id-measurementFailure
                                                   INTEGER ::= 9
id-measurementInitiation
                                                   INTEGER ::= 10
id-measurementReporting
                                                   INTEGER ::= 11
id-measurementTermination
                                                   INTEGER ::= 12
id-pagingRequest
                                                   INTEGER ::= 13
id-physicalChannelReconfiguration
                                                   INTEGER ::= 14
id-privateMessage
                                                   INTEGER ::= 15
id-radioLinkAddition
                                                   INTEGER ::= 16
id-radioLinkDeletion
                                                   INTEGER ::= 17
id-radioLinkFailure
                                                   INTEGER ::= 18
id-radioLinkRestoration
                                                   INTEGER ::= 19
id-radioLinkSetup
                                                   INTEGER ::= 20
id-srnsRelocationCommit
                                                   INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation
                                                   INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit
                                                   INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare
                                                   INTEGER ::= 24
id-unSynchronisedRadioLinkReconfiguration
                                                   INTEGER ::= 25
id-uplinkSignallingTransferFDD
                                                   INTEGER ::= 26
id-uplinkSignallingTransferTDD
                                                   INTEGER ::= 27
__ *******************
-- Extension constants
  *****************
maxPrivateIEs
                                         INTEGER ::= 65535
maxProtocolExtensions
                                         INTEGER ::= 65535
maxProtocol TEs
                                         INTEGER ::= 65535
__ *******************
-- Lists
__ **********************
```

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```
maxCodeNumComp-1
                                      INTEGER ::= 255
maxRateMatching
                                      INTEGER ::= 256
maxNoCodeGroups
                                      INTEGER ::= 256
maxNoOfDSCHs
                                      INTEGER ::= 10
maxNoOfRB
                                      INTEGER ::= 32
                                      INTEGER ::= 10
maxNoOfUSCHs
                                      INTEGER ::= 256
maxNoTFCIGroups
maxNrOfTFCs
                                      INTEGER ::= 1024
maxNrOfTFs
                                      INTEGER ::= 32
maxNrOfCCTrCHs
                                      INTEGER ::= 16
maxNrOfDCHs
                                      INTEGER ::= 128
maxNrOfDL-Codes
                                      INTEGER ::= 8
maxNrOfDPCHs
                                      INTEGER ::= 240
maxNrOfErrors
                                      INTEGER ::= 256
maxNrOfMACcshSDU-Length
                                      INTEGER ::= 16
maxNrOfPoints
                                      INTEGER ::= 15
                                      INTEGER ::= 16
maxNrOfRLs
maxNrOfRLSets
                                      INTEGER ::= maxNrOfRLs
maxNrOfRLs-1
                                      INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2
                                      INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfSCCPCHs
                                      INTEGER ::= 10
maxNrOfULTs
                                      INTEGER ::= 15
maxNrOfDLTs
                                      INTEGER ::= 15
maxRNCinURA-1
                                      INTEGER ::= 15
maxTTI-Count
                                      INTEGER ::= 4
maxCTFC
                                      INTEGER ::= 16777215
maxNrOfNeighbouringRNCs
                                      INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC
                                      INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC
                                      INTEGER ::= 256
maxFACHCountPlus1
                                      INTEGER ::= 10
maxIBSEG
                                      INTEGER ::= 16
maxTFCI1Combs
                                      INTEGER ::= 512
maxTFCI2Combs
                                      INTEGER ::= 1024
maxTFCI2Combs-1
                                      INTEGER ::= 1023
maxTGPS
                                      INTEGER ::= 6
maxNrOfTS
                                      INTEGER ::= 15
      -- IEs
__ **********************
id-AllowedQueuingTime
                                                                        INTEGER ::= 4
id-BindingID
                                                                        INTEGER ::= 5
id-C-ID
                                                                        INTEGER ::= 6
id-C-RNTI
                                                                        INTEGER ::= 7
id-CFN
                                                                        INTEGER ::= 8
id-CN-CS-DomainIdentifier
                                                                        INTEGER ::= 9
id-CN-PS-DomainIdentifier
                                                                        INTEGER ::= 10
id-Cause
                                                                        INTEGER ::= 11
```

id-RL-InformationItem-RL-SetupRgstFDD

ETC	

INTEGER ::= 122

INTEGER ::= 123

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id-DSCH-Modify-RL-ReconfPrepFDD	INTEGER ::= 228
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD	INTEGER ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	INTEGER ::= 230
id-GA-AccessPointPosition	INTEGER ::= 231
id-GA-Cell	INTEGER ::= 232
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 233
id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 234
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 235
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 236
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 237
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 238
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 239
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD	INTEGER ::= 240
id-Neighbouring-CellInformationItem-RL-AdditionRsp	INTEGER ::= 241
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD	INTEGER ::= 242
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD	INTEGER ::= 243
id-RLItem-RL-FailureInd	INTEGER ::= 244
id-RLItem-RL-RestoreInd	INTEGER ::= 245
id-RL-SetItem-RL-FailureInd	INTEGER ::= 246
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 247
id-RLSpecificCauseItem-RL-AdditionFailureFDD	INTEGER ::= 248
id-RLSpecificCauseItem-RL-AdditionFailureTDD	INTEGER ::= 249
id-RLSpecificCauseItem-RL-ReconfFailure	INTEGER ::= 250
id-RLSpecificCauseItem-RL-SetupFailureFDD	INTEGER ::= 251
id-RLSpecificCauseItem-RL-SetupFailureTDD	INTEGER ::= 252
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD	INTEGER ::= 253
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD	INTEGER ::= 254
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= 255
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	INTEGER ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	INTEGER ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 258
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 260
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 261
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 262
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 263
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	INTEGER ::= 264
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 265
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD	INTEGER ::= 266
id-USCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 267
id-USCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 268
id-USCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 269
id-USCH-InformationListIEs-RL-SetupRspTDD	INTEGER ::= 270
id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 271
id-USCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 272
<pre>id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-DL-Physical-Channel-Information-RL-SetupRgstTDD</pre>	INTEGER ::= 273 INTEGER ::= 274
	INTEGER ::= 274 INTEGER ::= 275
<pre>id-UL-Physical-Channel-Information-RL-SetupRqstTDD id-ClosedLoopModel-SupportIndicator</pre>	INTEGER ::= 276
id-ClosedLoopMode2-SupportIndicator	INTEGER ::= 277
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD	INTEGER ::= 277
14 M.ODMICHOCCIDIMINGACCODDCAONA BIBC OH DI-INGIDD	INTEGER ··- Z/O

id-STTD-SupportIndicator

INTEGER ::= 279

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
   Criticality,
  Presence,
   PrivateIE-ID,
  ProtocolExtensionID,
   ProtocolIE-ID
FROM RNSAP-CommonDataTypes
   maxPrivateIEs,
   maxProtocolExtensions,
   maxProtocolIEs
FROM RNSAP-Constants;
  *****************
-- Class Definition for Protocol IEs
__ *********************
RNSAP-PROTOCOL-IES ::= CLASS {
   &id
              ProtocolIE-ID
                                       UNIQUE,
   &criticality
                    Criticality,
   &Value,
   &presence
                 Presence
```

```
WITH SYNTAX {
                 &id
   CRITICALITY
                    &criticality
                    &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
   FIRST CRITICALITY
                       &firstCriticality
   FIRST TYPE
                    &FirstValue
                       &secondCriticality
   SECOND CRITICALITY
   SECOND TYPE
                    &SecondValue
   PRESENCE
                    &presence
    -- Class Definition for Protocol Extensions
__ ********************
RNSAP-PROTOCOL-EXTENSION ::= CLASS {
                 ProtocolExtensionID
   &id
                                               UNIQUE,
   &criticality
                       Criticality,
   &Extension,
   &presence
                 Presence
WITH SYNTAX {
                 &id
   CRITICALITY
                    &criticality
   EXTENSION
                    &Extension
   PRESENCE
                    &presence
```

```
-- Class Definition for Private IEs
__ *******************
RNSAP-PRIVATE-IES ::= CLASS {
               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 {
   id RNSAP-PROTOCOL-IES.&id ({IEsSetParam}),
   criticality
                RNSAP-PROTOCOL-IES.&criticality
                                                ({IEsSetParam}{@id}),
                                                   ({IEsSetParam}{@id})
   value
                  RNSAP-PROTOCOL-IES.&Value
    *****************
-- Container for Protocol IE Pairs
  ProtocolIE-ContainerPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
   SEOUENCE (SIZE (0..maxProtocolIEs)) OF
   ProtocolIE-FieldPair {{IEsSetParam}}
ProtocolIE-FieldPair {RNSAP-PROTOCOL-IES-PAIR : IESSetParam} ::= SEQUENCE {
               RNSAP-PROTOCOL-IES-PAIR.&id
                                            ({IEsSetParam}),
   firstCriticality
                      RNSAP-PROTOCOL-IES-PAIR.&firstCriticality ({IEsSetParam}{@id}),
   firstValue
                  RNSAP-PROTOCOL-IES-PAIR.&FirstValue
                                                      ({IEsSetParam}{@id}),
```

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```
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 {
                                                 ({ExtensionSetParam}),
                RNSAP-PROTOCOL-EXTENSION.&id
   criticality
                   RNSAP-PROTOCOL-EXTENSION.&criticality
                                                        ({ExtensionSetParam}{@id}),
   extensionValue
                      RNSAP-PROTOCOL-EXTENSION. & Extension
                                                       ({ExtensionSetParam}{@id})
  -- Container for Private IEs
__ *********************
PrivateIE-Container {RNSAP-PRIVATE-IES : IEsSetParam} ::=
   SEQUENCE (SIZE (1..maxPrivateIEs)) OF
   PrivateIE-Field {{IEsSetParam}}
PrivateIE-Field {RNSAP-PRIVATE-IES : IEsSetParam} ::= SEOUENCE {
                                          ({IEsSetParam}),
                RNSAP-PRIVATE-IES.&id
   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

-

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.

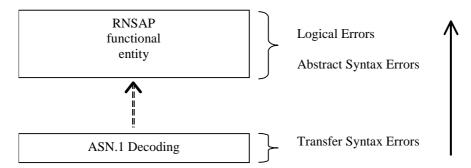


Figure 34: Protocol Errors in RNSAP

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 concerning 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

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) results 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 case 4 is specified in subclause 10.3.7.

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).
 - Note that this restriction is not applicable to a sending entity for constructing messages.
- 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 concerning 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.

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.

10.3.4.2 IEs other than the Procedure ID

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure ID* 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.
- 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 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 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.
- 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 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.

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.
- 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 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 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 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.
- 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 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 initiate the Error Indication procedure.

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 continue with the procedure based on the other IEs/IE groups present in the message.

10.3.6 IEs or IE groups received in wrong order or with too many occurrences

If a message with IEs or IE groups in wrong order or with too many occurrences is received, 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, 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.
- 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, the receiving node shall 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, the receiving node shall initiate local error handling.

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 failure message, the failure 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 failure message, the Error Indication procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the Error Indication procedure shall be initiated with an appropriate cause value.

Annex A (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	

History

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