

**TSG-RAN Meeting #8
Düsseldorf, Germany, 21 - 23 June 2000**

TSGRP#8(00)0244

Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Nu
R3-001608	25.423	126	2	Update on compressed mode handling	C	agreed	3.1.0	3.2.0
R3-001656	25.423	141		ASN.1 merge files	F	agreed	3.1.0	3.2.0

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 126r2

Current Version: **3.1.0.**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**
list expected approval meeting # here

for approval
For information

Strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** May , 2000

Subject: Update on Compressed Mode handling

Work item:

Category: <small>(only one category shall be marked with an X)</small>	F Correction	<input type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input checked="" type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
			Release 00	<input type="checkbox"/>	

Reason for change:

The compressed mode measurement handling is not in line with WG1 and WG3 specification and shall be updated. The update is carried out by introducing the following information elements:

Transmission Gap Sequence Information: Contains the parameters that defines up to six pattern sequences, except the TGCFN and the duration. It is used for the configuration of the Transmission Gap Sequences.

- Transmission Gap Sequence Information Response: Includes only the information if alternate or normal scrambling code is used
- Active Pattern Sequence Information. specify for each used channalisation code which pattern sequences are active/activated, the TGCFN and the duration.

RL Setup contains either TGPSI (in case the pattern sequence are only initialised) or the TGPSI+APSI (in case pattern sequences are already active). RL Setup Response contains the TGPSI response.

RL Addition includes the APSI, in order to give to the DRNC the correct timing information about the pattern sequences already active. The APSI can be used to terminate the measurement in the new radio link.

RL RECONFIGURATION PREPARE and RL RECONFIGURATION REQUEST includes the TGPSI
RL RECONFIGURATION READY and RL RECONFIGURATION RESPONSE includes the TGPSI response
CM Prepare and CM Cancellation procedure are removed

RL RECONFIGURATION COMMIT contains as optional parameter the APSI.

Compressed mode Commit is renamed CM command, and includes the APSI. Multiple commit can be used. Commit message is also used to replace the active pattern

sequences with a new one (including as particular case the termination of the ongoing pattern sequence)

Since compressed mode prepare is used to initialise CM information that are stored by the receiving entity, the compressed mode Cancel procedure is not needed and it is removed.

Draft1: Changes respect the previous version (revision1) are highlighted in green.

Draft2: Changes respect the previous version (revision2 draft1) are made with new revision marks.

Revision2: Changes respect the previous version (revision1 draft2) are highlighted in yellow.

Clauses affected:

- 7. Functions of RNSAP
 - 8.3.1 Radio Link Setup
 - 8.3.2 Radio Link Addition
 - 8.3.4 Synchronised Radio Link Reconfiguration Preparation
 - 8.3.5 Synchronised Radio Link Reconfiguration Commit
 - 8.3.7 Unsynchronised Radio Link Reconfiguration
 - 8.3.17 Compressed Mode Commit
 - 8.3.18 Compressed Mode Cancellation
- 9. Elements for RNSAP Communication
 - 9.1.3 Radio Link Setup Request (FDD)
 - 9.1.4 Radio Link Setup Response (FDD)
 - 9.1.6 Radio Link Addition Request (FDD)
 - 9.1.7 Radio Link Addition Response (FDD)
 - 9.1.11 Radio Link Reconfiguration Prepare (FDD)
 - 9.1.12 Radio Link Reconfiguration Ready (FDD)
 - 9.1.13 Radio Link Reconfiguration Commit (FDD)
 - 9.1.16 Radio Link Reconfiguration Request (FDD)
 - 9.1.38 Compressed Mode Prepare (FDD)
 - 9.1.41 Compressed Mode Commit (FDD)
 - 9.1.42 Compressed Mode Cancel
- 9.2.1.5 Cause
- 9.2.1.30 Message Type
- 9.2.2 FDD Specific Parameters

Other specs affected:

- | | | |
|-------------------------------|--------------------------|----------------|
| Other 3G core specifications | <input type="checkbox"/> | → List of CRs: |
| Other GSM core specifications | <input type="checkbox"/> | → List of CRs: |
| MS test specifications | <input type="checkbox"/> | → List of CRs: |
| BSS test specifications | <input type="checkbox"/> | → List of CRs: |
| O&M specifications | <input type="checkbox"/> | → List of CRs: |

Other comments:

2 References

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

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

- [1] 3G TS 23.003: "Numbering, addressing and identification".
- [2] 3G TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3G TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3G TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] 3G TS xx.yyy: "Specification containing different Identifiers for UMTS (to be identified)".
- [6] 3G TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception"
- [7] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3G TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3G TS 25.212: "Multiplexing and Channel Coding (FDD)"
- [10] UMTS 25.214, Physical Layer Procedures (FDD)".
- [11] 3G TS 25.215: "Physical Layer – Measurements (FDD)".
- [12] 3G TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3G TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3G TS 25.225: "Physical Layer – Measurements (TDD)".
- [15] 3G TS 25.304: "UE Procedures in Idle Mode"
- [16] 3G TS 25.331: "RRC Protocol Specification".
- [17] 3G TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] X.680 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [20] ITU-T Recommendation X.691 (12/94): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [21] 3G TS 25.302: "Services Provided by the Physical Layer".

3.2 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
<u>CM</u>	<u>Compressed Mode</u>
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
RAB	Radio Access Bearer
RACH	Random Access Channel
RL	Radio Link
RLC	Radio Link Control
RLS	Radio Link Set
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
UTRAN	UMTS Terrestrial Radio Access Network

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 Cancellation
Physical Channel Reconfiguration	Physical Channel Reconfiguration
Radio Link Supervision	a) Radio Link Failure b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup b) Radio Link Addition a) Compressed Mode Preparation b) c) a) Compressed Mode Command Commit e) Compressed Mode Cancellation 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

8.3.1 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

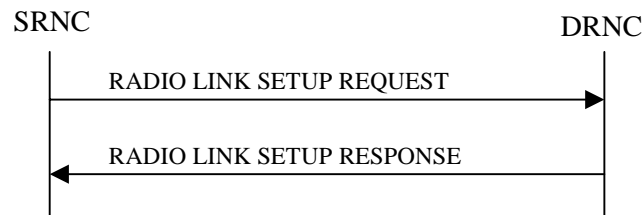


Figure 1: Radio Link Setup procedure: Successful Operation

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 Diversity Control Field 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. 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 *Primary CPICH Ec/No* IE [FDD] or the *Primary CCPCH RSCP* IE [TDD] is present, the DRNC should use them when deciding the Initial DL TX Power.

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH, the DRNS shall treat all DCHs with the same value of this IE as a set of co-ordinated DCHs.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", 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. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

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.

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH as the new DCH FP Mode in the Uplink of the user plane for this DCH.

The DRNS shall use the included *ToAWS* IE for a DCH as the new Time of Arrival Window Start Point in the user plane for this DCH.

The DRNS shall use the included *ToAWE* IE for a DCH as the new Time of Arrival Window End Point in the user plane for this DCH.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE, the DRNS may activate SSDT 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. ~~The information is stored until a new *Transmission Gap Pattern Sequence Information* IE is received or the last Radio Link of the UE in the DRNS is removed.~~]

[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 Transmission 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. \[421\]](#).]

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. This information shall be sent to the SRNS in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

[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 suggested initial Uplink and Downlink SIR Targets in the RADIO LINK SETUP RESPONSE message.]

[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 shall be included to indicate with which RL the combination is performed. The Reference RL ID 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 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 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 - Irrespective of SSDT activation, the DRNS shall include in the RADIO LINK SETUP RESPONSE message an indication concerning the capability to support SSDT on this RL. Only if the RADIO LINK SETUP REQUEST message requested SSDT activation and the RADIO LINK SETUP RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT is activated in the DRNS.]

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 PSCH Time Slot information] 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, CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx diversity indicator* and Tx diversity capability (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*) in Neighbouring FDD Cell Information].

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 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.]

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", "Closedloop mode1", or "Closedloop 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

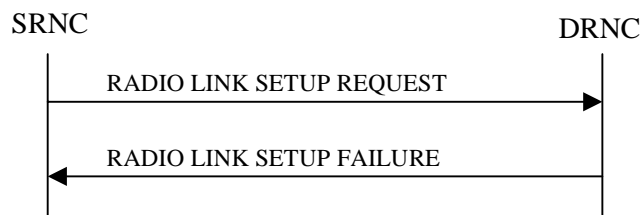


Figure 2: Radio Link Setup procedure: Unsuccessful Operation

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.

[FDD - If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector IE* set to "selected DCH" 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 provide the requested CM *pattern sequences*, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message with the cause value "Invalid CM settings".]

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 - Macrodiversity Combining not Possible];
- Requested Configuration not Supported;
- Cell not Available;
- Power Level not Supported;
- [Invalid CM Settings.](#)

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

- Transaction not Allowed

Miscellaneous Causes:

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

8.3.2 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.

8.3.2.2 Successful Operation

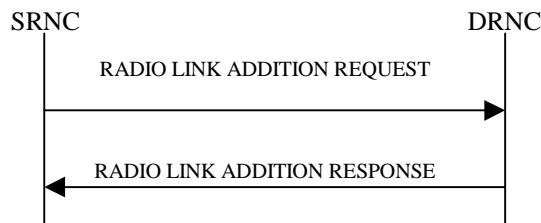


Figure 3: Radio Link Addition procedure: Successful Operation

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 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. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

If the *Primary CCPCH Ec/No* IE [FDD] or the *Primary CCPCH RSCP* IE [TDD] 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.

[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 may 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 in the new RLs, the DRNS shall use the information to immediately activate all the 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 does not specify any new pattern is not included, the DRNS shall not activate the ongoing 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 – 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 and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the co-ordinated DCHs.

[FDD - Irrespective of SSDT activation, the DRNS shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSSDT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSSDT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSSDT capability is supported for this RL, SSSDT is activated in the DRNS.]

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 Primary Scrambling Code 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-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value], Frame Offset of the neighbouring cell, Tx diversity indicator [FDD], and Tx diversity capability[FDD] (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*).

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 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.]

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*", "*Closedloop mode1*", or "*Closedloop mode2*", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication IE*]

8.3.2.3 Unsuccessful Operation

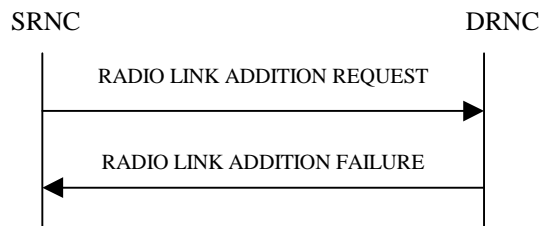


Figure 4: Radio Link Addition procedure: Unsuccessful Operation

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".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Macrodiversity Combining not Possible;
- Cell not Available;
- Power Level not Supported;
- Invalid CM Settings.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

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

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

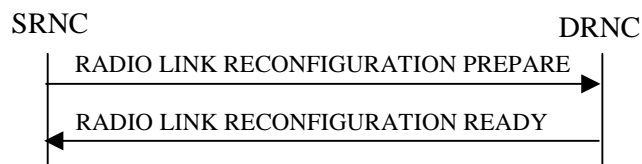


Figure 5: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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 the *UL FP Mode* IE for a DCH to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH 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 the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", 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. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

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 to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH 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 one or more *Spreading Factor of Channelisation Code (DL)* IE, for each *Spreading Factor of Channelisation Code (DL)* IE the DRNS shall allocate one new Downlink Channelisation Code 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 *Channelisation Code (DL)* 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 ~~may~~ 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.]

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 [TDD – the CCTrCH of] the new configuration.

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 [TDD – the CCTrCH of] the new configuration.

[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.]

[TDD – The DRNC shall include all the IEs corresponding to the new physical channel resources for the DL DPCH and/or the UL DPCH to be reconfigured in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

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 may activate SSDT 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.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH to be Added* IE group or the *DCH to be Modified* 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 to be Added* IE group and the *DCH to be Modified* IE group shall be included only for one of the combined Radio Links.

FDD–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.]

~~when those are activated. The information is stored until a new *Transmission Gap Pattern Sequence Information* IE is received or the last Radio Link of the UE in the DRNS is removed.~~

[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.]

8.3.4.3 Unsuccessful Operation

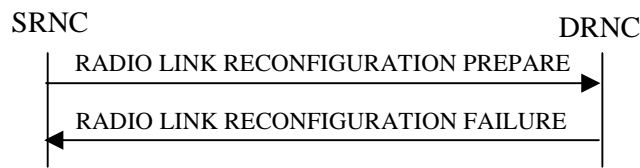


Figure 6: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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.

[FDD - If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected DCH" the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the DRNS cannot provide the requested CM pattern sequences, the DRNC shall regard the Synchronised Radio Link Reconfiguration procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

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.

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.

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 7: 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. activate the indicated CM pattern at the specified moment in time. The Activation CFN CM Configuration Change CFN in the Active Pattern Sequence Information IE and TGCFN for each sequence in the Active Pattern Sequence Information IE 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. [11][21].]

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 8: 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

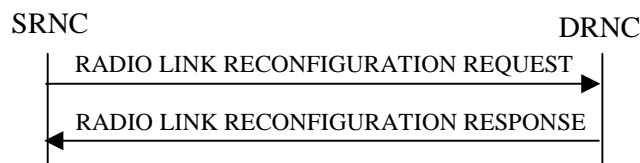


Figure 9: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

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 on the *UL FP Mode* IE for a DCH to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH 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 the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", 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. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

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 to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

[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:

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] 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.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH to be Added* IE group or the *DCH to be Modified* 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 to be Added* IE group and the *DCH to be Modified* IE group shall be included only for one of the combined Radio Links.

FDD – 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.]

when those are activated. The information is stored until a new *Transmission Gap Pattern Sequence Information* IE is received or the last Radio Link of the UE in the DRNS is removed.

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 ~~*Transmission Gap Pattern Sequence Information Response* IE~~ to 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

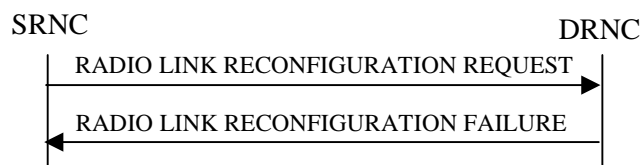


Figure 10: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

[FDD - If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected DCH" 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.

[FDD – If the DRNS cannot provide the requested CM **pattern sequences**, the DRNC shall regard the Unsynchronised Radio Link Reconfiguration procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

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

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.

8.3.16 Compressed Mode Preparation [FDD]

8.3.16.1 General

The Compressed Mode Preparation procedure is used to prepare 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 Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

8.3.16.2 Successful Operation

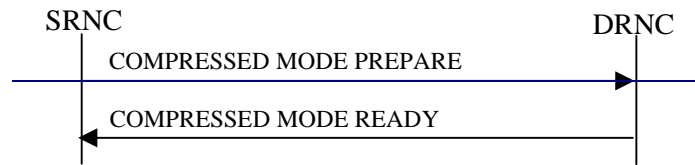


Figure 5: Compressed Mode Preparation procedure, Successful Operation

The Compressed Mode Preparation procedure is initiated by the SRNC by sending the COMPRESSED MODE PREPARE message to the DRNC.

If the PD IE is set to 'infinite', the DRNS shall continue with the compressed mode until it is requested to terminate the compressed mode.

If the proposed modifications are allowed by the DRNS and the DRNC has successfully initialised the required resources, the DRNC shall respond to the SRNC with COMPRESSED MODE READY message.

If the Compressed Mode Method IE is set to 'None', the DRNS shall terminate the compressed mode even if the COMPRESSED MODE PREPARE message was received before the end of the compressed mode period.

8.3.16.3 Unsuccessful Operation

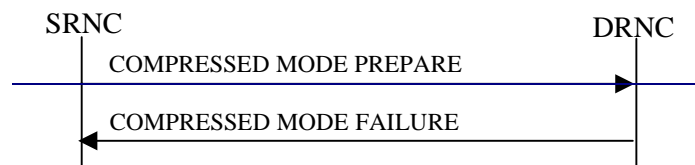


Figure 6: Compressed Mode Preparation procedure, unsuccessful case

If the requested reconfiguration fails for one or more RLCs the DRNC shall abort the procedure and send the COMPRESSED MODE FAILURE message to the SRNC, indicating the reason for failure.

Typical cause values are:

Radio Network Layer Causes:

- Requested Configuration not Supported

Miscellaneous Causes:

- Not enough User Plane Processing Resources

8.3.16.4 Abnormal Conditions

-

8.3.17 Compressed Mode **CommandCommit** [FDD]

8.3.17.1 General

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

8.3.17.2 Successful Operation

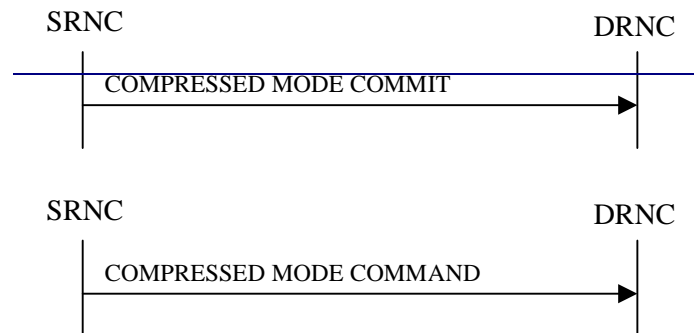


Figure 3: Compressed Mode **CommandCommit procedure, Successful Operation**

The DRNS shall initiate the compressed mode in accordance with the settings prepared by the Compressed Mode Preparation procedure at the CFN requested by the SRNC when receiving the COMPRESSED MODE COMMIT message from the SRNC.

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. Upon the reception of COMPRESSED MODE COMMAND message the the DRNS shall 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. activate the indicated CM pattern at the specified moment in time. The *Activation CFNCM Configuration Change CFN* in the *Active Pattern Sequence Information IE* and *TGCFN* for each sequence in the *Active Pattern Sequence Information IE* 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. \[11\]\[21\]](#).

8.3.17.3x Abnormal Conditions

-

8.3.18 ~~Compressed Mode Cancellation [FDD]~~

8.3.18.1 ~~General~~

~~The Compressed Mode Cancellation procedure is used to cancel 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 Cancellation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.~~

8.3.18.2 ~~Successful Operation~~

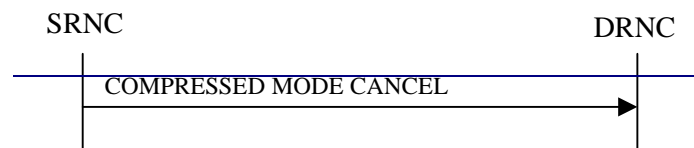


Figure 29: ~~Compressed Mode Cancellation procedure, Successful Operation~~

~~The DRNS shall abort the compressed mode if it receives the COMPRESSED MODE CANCEL message.~~

8.3.18.3 ~~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 protocols.

All the RNSAP messages are listed in the following table:

Message name	Reference
RADIO LINK SETUP REQUEST	9.1.3
RADIO LINK SETUP RESPONSE	9.1.4
RADIO LINK SETUP FAILURE	9.1.5
RADIO LINK ADDITION REQUEST	9.1.6
RADIO LINK ADDITION RESPONSE	9.1.7
RADIO LINK ADDITION FAILURE	9.1.8
RADIO LINK DELETION REQUEST	9.1.9
RADIO LINK DELETION RESPONSE	9.1.10
RADIO LINK RECONFIGURATION PREPARE	9.1.11
RADIO LINK RECONFIGURATION READY	9.1.12
RADIO LINK RECONFIGURATION COMMIT	9.1.13
RADIO LINK RECONFIGURATION FAILURE	9.1.14
RADIO LINK RECONFIGURATION CANCEL	9.1.15
RADIO LINK RECONFIGURATION REQUEST	9.1.16
RADIO LINK RECONFIGURATION RESPONSE	9.1.17
RADIO LINK FAILURE INDICATION	9.1.18
RADIO LINK RESTORE INDICATION	9.1.19
DL POWER CONTROL REQUEST	9.1.20
PHYSICAL CHANNELRECONFIGURATION REQUEST	9.1.21
PHYSICAL CHANNELRECONFIGURATION COMMAND	9.1.22
PHYSICAL CHANNELRECONFIGURATION FAILURE	9.1.23
UPLINK SIGNALLING TRANSFER INDICATION	9.1.24
DOWNLINK SIGNALLING TRANSFER REQUEST	9.1.25
RELOCATION COMMIT	9.1.26
PAGING REQUEST	9.1.27
DEDICATED MEASUREMENT INITIATION REQUEST	9.1.28
DEDICATED MEASUREMENT INITIATION RESPONSE	9.1.29
DEDICATED MEASUREMENT INITIATION FAILURE	9.1.30
DEDICATED MEASUREMENT REPORT	9.1.31
DEDICATED MEASUREMENT TERMINATION REQUEST	9.1.32
DEDICATED MEASUREMENT FAILURE INDICATION	9.1.33
COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST	9.1.34
COMMON TRANSPORT CHANNEL RESOURCES REQUEST	9.1.35
COMMON TRANSPORT CHANNEL RESOURCES RESPONSE	9.1.36
COMMON TRANSPORT CHANNEL RESOURCES FAILURE	9.1.37
COMPRESSED MODE PREPARE	9.1.38
COMPRESSED MODE READY	9.1.39
COMPRESSED MODE FAILURE	9.1.40
COMPRESSED MODE COMMAND IT	9.1. 38 41
COMPRESSED MODE CANCEL	9.1.42
ERROR INDICATION	9.1. 39 43

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	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	reject
D-RNTI	O				YES	reject
Allowed Queuing time	O				YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	M				–	
>Min UL Channelisation Code Length	M				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	M			For the UL.	–	
>UL Transport Format Combination Set	M				–	
>UL DPCCH Slot Format	M				–	
>Uplink SIR Target	O		Uplink SIR		–	
>Diversity mode	M				–	
>D Field Length	C-FB				–	
>SSDT Cell ID Length	O				–	
>S Field Length	O				–	
DL DPCH Information		1			YES	reject
>Transport Format Combination Set	M				–	
>DL DPCH Slot Format	M				–	
>TFCI Signalling Mode	M				–	
>TFCI Presence	C- SlotFormat				–	
>Multiplexing Position	M				–	
>Power Offset Information		1			–	
>>PO1	M		Power Offset	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M				–	
DCH Information		1..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	
>QE-Selector	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC control	M				–	
RL Information		<i>1...<maxnoofRLs></i>			EACH	notify
>RL ID	M				–	
>C-ID	M				–	
>Frame Offset	M				–	
>Chip Offset	M				–	
>Propagation Delay	O				–	
>Diversity Control Field	C – NotFirstRL				–	
>Initial DL TX Power	O		DL Power		–	
>Primary CPICH Ec/No	O				–	
>SSDT Cell ID	O				–	
>Transmit Diversity Indicator	C – Diversity mode				–	
Transmission Gap Pattern Sequence Information	<u>O</u>				<u>YES</u>	<u>reject</u>
Active Pattern Sequence Information	<u>O</u>				<u>YES</u>	<u>reject</u>

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
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 <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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

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				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG REP	M				–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>> Transmission Gap Pattern Sequence Information Response	<u>O</u>				=	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>Non Combining or IE not present				"IE not present" is equivalent to "First RL".	YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>SSDT Support Indicator	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>Neighbouring Cell Information		0..<maxno of neighbourin gRNCs>			EACH	ignore
>> RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		0..<maxno ofTDDneig hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		YES	ignore
Downlink SIR Target	M		Uplink SIR		YES	ignore
Criticality Diagnostics	O				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.
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

9.1.6 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				YES	reject
Transaction ID	M				-	
Uplink SIR Target	M		Uplink SIR		YES	reject
RL Information		1..<maxn oofRLs-1>			EACH	notify
>RL ID	M				-	
>C-Id	M				-	
>Frame Offset	M				-	
>Chip Offset	M				-	
>Diversity Control Field	M				-	
>Primary CPICH Ec/No	O				-	
>SSDT Cell Identity	O				-	
>Transmit Diversity Indicator	C – Diversity mode				-	
Active Pattern Sequence Information	<u>O</u>			Either all the already active Transmission Gap Sequence(s) are addressed (Transmission Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	<u>YES</u>	<u>reject</u>

Range bound	Explanation
MaxnoofRLs	Maximum number of radio links for one UE
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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				YES	reject
Transaction ID	M				–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG REP	M				–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>> Transmission Gap Pattern Sequence Information Response	<u>O</u>				=	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M			Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore
>>> DCH Information Response		<i>1..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>SSDT Support Indicator	M				–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
> Neighbouring Cell Information		<i>0..<maxnoof neighbouringRNCs></i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>> Per FDD Cell Information		<i>0..<maxnoof FDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>> Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Criticality Diagnostics	O				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

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
UL DPCH Information		0..1			YES	reject
>UL Scrambling code	O				–	
>UL SIR Target	O		Uplink SIR		–	
>Min UL Channelisation Code Length	O				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	O			For the UL.	–	
>TFCS	O			TFCS for the UL.	–	
>UL DPCCH Slot Format	O				–	
>SSDT Cell Identity Length	O				–	
>S-Field Length	O				–	
DL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the DL.	–	
>DL DPCH Slot Format	O				–	
>TFCI Signalling Mode	O				–	
>TFCI Presence	C- SlotFormat				–	
>MultiplexingPosition	O				–	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Allocation/Retention Priority	O				–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
>DRAC Control	O				–	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Indicator	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	
>QE-Selector	M				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC Control	M				–	
DCHs to Delete		<i>0..<maxnoof DCHs></i>			GLOBAL	reject
>DCH ID	M				–	
RL Information		<i>0..<maxnoof RLS></i>			EACH	reject
>RL ID	M				–	
>SSDT Indication	O				–	
>SSDT Cell Identity	C - SSDTIndON				–	
Transmission Gap Pattern Sequence Information	<u>Q</u>				<u>YES</u>	<u>reject</u>

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.

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLS for a 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	M				YES	reject
Transaction ID	M				-	
RL Information Response		<i>0..<maxno ofRLs></i>			EACH	ignore
>RL ID	M				-	
>Maximum Uplink SIR	O		Uplink SIR		-	
>Minimum Uplink SIR	O		Uplink SIR		-	
> Secondary CCPCH Info		0..1			-	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	-	
>>DL Scrambling Code	M				-	
>>FDD DL Channelisation Code Number	M				-	
>>TFCS	M			For the DL.	-	
>>Secondary CCPCH Slot Format	M				-	
>>TFCI presence	C - SlotFormat				-	
>>MultiplexingPosition	M				-	
>>STTD Indicator	M				-	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			-	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	-	
>> Scheduling Information		1			-	
>>>IB_SG REP	M				-	
>>> Segment Information		1.. <maxIBSEG>			-	
>>>>IB_SG POS	M				-	
> Downlink Code Information		<i>0..<maxno ofDL Codes></i>			GLOBAL	ignore
>>DL Scrambling Code	M				-	
>>FDD DL Channelisation Code Number	M				-	
>> Transmission Gap Pattern Sequence Information Response	<u>O</u>				=	
> DCH to be Added		<i>0..<maxno ofDCHs></i>		Only one DCH per set of co-	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				ordained DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
>DCH to be Modified		<i>0..<maxno ofDCHs></i>		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	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
Criticality Diagnostics	O				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.
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

9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
CFN	M				YES	ignore
Active Pattern Sequence Information	<u>O</u>				<u>YES</u>	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				YES	reject
Transaction ID	M				–	
Cause	M				YES	ignore
RLs Causing Reconfiguration Failure		<i>0..<maxnoof RLS></i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
Criticality Diagnostics	O				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				YES	reject
Transaction ID	M				–	

9.1.16 RADIO LINK RECONFIGURATION REQUEST

9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
Allowed Queuing Time	O				YES	reject
UL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the UL.	-	
DL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the DL.	-	
>TFCI Signalling Mode	O				-	
DCHs to Modify		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				-	
>Transport Format Set	O			For the UL.	-	
>Transport Format Set	O			For the DL.	-	
>Allocation/Retention Priority	O				-	
>Frame Handling Priority	O				-	
>UL FP Mode	O				-	
>ToAWS	O				-	
>ToAWE	O				-	
>DRAC Control	O				-	
DCHs to add		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				-	
>DCH Combination Ind	O				-	
>Limited Power Increase	M				-	
>Tr Ch Source Statistics Descriptor	M				-	
>Transport Format Set	M			For the UL.	-	
>Transport Format Set	M			For the DL.	-	
>BLER	M			For the UL.	-	
>BLER	M			For the DL.	-	
>Allocation/Retention Priority	M				-	
>Frame Handling Priority	M				-	
>Payload CRC Presence Indicator	M				-	
>UL FP mode	M				-	
>QE-Selector	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
>DRAC Control	M				-	
DCHs to Delete		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				-	
Transmission Gap Pattern Sequence Information	O				YES	reject

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

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
RL Information Response		0..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>>Scheduling Information		1			–	
>>>>IB_SG REP	M				–	
>>>>Segment Information		1.. <maxIBSEG>			–	
>>>>>IB SG POS	M				–	
>DCH to be Added		0..<maxno ofDCHs>		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	M				–	
>>Binding ID	M				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Layer Address	M				-	
>DCH to be Modified		0..<maxno ofDCHs>		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	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
>DL Code Information		0..<maxno of DL Codes>			GLOBAL	ignore
>>DL Scrambling Code	M				=	
>>FDD DL Channelisation Code Number	M				=	
>>Transmission Gap Pattern Sequence Information Response	M				=	
Criticality Diagnostics	O				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.
MaxnoofDL Codes	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

9.1.38 COMPRESSED MODE PREPARE [FDD]Void:

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type					YES	reject
Transaction ID					-	
CM Pattern Information		1 to 8		Range defined in [9]	EACH	reject
>CFN-Offset	M				-	
>TGP1	M		Gap-Period	Applies only to the first and all the subsequent odd-gaps if TGP2 is present, see ref. [10].	-	
>TGP2	O		Gap-Period		-	
>TGL	M				-	
>TGD	M				-	
>PD	M				-	
>UL/DL Compressed Mode Selection	M				-	
>Compressed Mode Method	M				-	
>Gap-Position-Mode	M				-	
>SN	C-Flex				-	
>Downlink-Frame-Type	M				-	
>Scrambling-Code-Change	C-SF/2				-	
>Power-Control-Mode	M				-	
>Power-Resume-Mode	M				-	
>Uplink-Delta-SIR	M				-	
>Uplink-Delta-SIR-After	M				-	

Condition	Explanation
Flex	This IE is present only if "Gap position Mode" equals to 'flexible'.
SF/2	This IE is present only if Compressed Mode Method equals to SF/2

9.1.39 COMPRESSED MODE READY [FDD]Void:

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
Criticality Diagnostics	O				YES	ignore

9.1.40 COMPRESSED MODE FAILURE [FDD]Void:

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
Cause	M				YES	ignore
Criticality Diagnostics	O				YES	ignore

9.1.3841 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				-	
CFN	M				YES	ignore
Active Pattern Sequence Information	M				YES	ignore

9.1.42 COMPRESSED MODE CANCEL [FDD]

Void

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				-	

9.1.3943 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction Id	M				-	
Cause	C_ifalone				YES	ignore
Criticality Diagnostics	C_ifalone				YES	ignore

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

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 <i>cause group</i>				
> <i>Radio Network Layer</i>				
>>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, Macrodiversity Combining Not Possible, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Unspecified, Invalid CM Settings...)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport link failure, Transmission port not available, Unspecified,...)	
> <i>Protocol</i>				
>>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,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

9.2.1.30 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 Preparation , Compressed Mode Command, Compressed Mode Cancellation , Error Indication, ...)	
>>Ddmode	M		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	M		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

9.2.2.x Active Pattern Sequence Information

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Activation CFNCM Configuration Change CFN</u>	<u>M</u>	<u>0</u>	<u>CFN Integer(0..255)</u>	<u>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.</u>
<u>Transmission Gap Pattern Sequence Status Active Pattern Sequence Information</u>		<u>0 to <MaxTGPS></u>		<u>If the group is not present, none of the pattern sequences are activated.</u>
<u>> TGPSI</u>	<u>M</u>		<u>Integer(1..<MaxTGPSA PS>)</u>	<u>Active Pattern Sequence Identifier. Establish a reference to the compressed mode pattern sequence. Up to <MaxAPS> simultaneous compressed mode pattern sequences can be activated.</u>
<u>> TGPRC</u>	<u>M</u>		<u>Integer (0..63)</u>	<u>The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity</u>
<u>>TGCFN</u>	<u>M</u>		<u>CFN Integer(0..255)</u>	<u>Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence. Transmission Gap Pattern Sequence activation time</u>

<u>Range bound</u>	<u>Explanation</u>
<u>MaxTGPS</u>	<u>Maximum number of active pattern sequences. Value 6.</u>

9.2.2.x Transmission Gap Pattern Sequence Information

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Transmission gap pattern sequence information</u>		1 to <MaxTGPS>		
> TGPSI	M		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.
> TGCFN	M		Integer (0..255)	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.
> TGSN	M		Integer (0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
> TGL1	M		Integer(1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots
> TGL2	O		Integer (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
> TGD	M		Integer (0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0=undefined).
> TGPL1	M		Integer (1..144)	The duration of transmission gap pattern 1.
> TGPL2	O		Integer (1..144)	The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.
> RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied
> ITPPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
> UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
> Downlink compressed mode method	C-DL		Enumerated (puncturing, SF/2, higher layer scheduling, none)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped
> Uplink compressed mode method	C-UL		Enumerated (SF/2, none, higher layer)	Method for generating uplink compressed mode gap

			scheduling)	
> Downlink frame type	M		Enumerated (A, B)	
DeltaSIR1	M		Integer (0..30)	Delta in DL SIR target value to be set in the UE 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
DeltaSIRafter1	M		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern., Step 0.1
DeltaSIR2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE 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. Step 0.1
DeltaSIRafter2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1

<u>Condition</u>	<u>Explanation</u>
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".

<u>Range bound</u>	<u>Explanation</u>
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

9.2.2.x 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].

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

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

This subclause is for the time being only **INFORMATIVE**.

In case of misalignment with the tabular format of the messages in subclause 9.1 the ASN.1 needs to be aligned with the tabular format.

The setting of the criticality field and the level on which criticality is set for the IEs and sequences of IEs is still to be decided upon.

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 -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    ProcedureID,
    TransactionID
FROM RNSAP-CommonDataTypes

    CommonTransportChannelResourcesFailure,
    CommonTransportChannelResourcesRequest,
```

CommonTransportChannelResourcesReleaseRequest,
CommonTransportChannelResourcesResponseFDD,
CommonTransportChannelResourcesResponseTDD,
~~CompressedModeCancel,~~
~~CompressedModeCommit,~~
~~CompressedModeFailure,~~
~~CompressedModePrepare,~~
~~CompressedModeReady,~~
~~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,
UplinkSignallingTransferIndication

FROM RNSAP-PDU-Contents


```

    id-commonTransportChannelResourcesInitiationFDD,
    id-commonTransportChannelResourcesInitiationTDD,
    id-commonTransportChannelResourcesRelease,
id-compressedModeCancellationFDD,
id-compressedModeCommitFDD,
id-compressedModePrepareFDD,
id-compressedMomeCommandFDD,
    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-uplinkSignallingTransfer
FROM RNSAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

RNSAP-ELEMENTARY-PROCEDURE ::= CLASS {
    &InitiatingMessage          ,
    &SuccessfulOutcome          OPTIONAL,
    &UnsuccessfulOutcome        OPTIONAL,
    &Outcome                    OPTIONAL,
    &procedureID                ProcedureID    UNIQUE,
    &criticality                Criticality    DEFAULT ignore
}
WITH SYNTAX {
    INITIATING MESSAGE          &InitiatingMessage
    [SUCCESSFUL OUTCOME        &SuccessfulOutcome]
    [UNSUCCESSFUL OUTCOME      &UnsuccessfulOutcome]
    [OUTCOME                   &Outcome]
    PROCEDURE ID                &procedureID
    [CRITICALITY                &criticality]
}

```

```

-- *****
--
-- Interface PDU Definition
--
-- *****

RNSAP-PDU ::= CHOICE {
    initiatingMessage    InitiatingMessage,
    succesfulOutcome     SuccessfulOutcome,
    unsuccessfulOutcome  UnsuccessfulOutcome,
    outcome              Outcome,
    ...
}

InitiatingMessage ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
    transactionID TransactionID,
    value       RNSAP-ELEMENTARY-PROCEDURE.&InitiatingMessage ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} )
}

SuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
    transactionID TransactionID,
    value       RNSAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} )
}

UnsuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
    transactionID TransactionID,
    value       RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} )
}

Outcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
    transactionID TransactionID,
    value       RNSAP-ELEMENTARY-PROCEDURE.&Outcome          ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} )
}

-- *****
--
-- Interface Elementary Procedure List
--
-- *****

RNSAP-ELEMENTARY-PROCEDURES RNSAP-ELEMENTARY-PROCEDURE ::= {
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-1      |
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-2      |
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-3      ,

```

```

}
...
RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= {
  radioLinkSetupFDD
  radioLinkSetupTDD
  radioLinkAdditionFDD
  radioLinkAdditionTDD
  radioLinkDeletion
  synchronisedRadioLinkReconfigurationPreparationFDD
  synchronisedRadioLinkReconfigurationPreparationTDD
  unSynchronisedRadioLinkReconfigurationFDD
  unSynchronisedRadioLinkReconfigurationTDD
  physicalChannelReconfigurationFDD
  physicalChannelReconfigurationTDD
  measurementInitiation
  compressedModePreparationFDD
  commonTransportChannelResourcesInitiationFDD
  commonTransportChannelResourcesInitiationTDD
  ...
}

```

```

RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= {
  uplinkSignallingTransfer
  downlinkSignallingTransfer
  srnsRelocationCommit
  paging
  synchronisedRadioLinkReconfigurationCommit
  synchronisedRadioLinkReconfigurationCancellation
  radioLinkFailure
  radioLinkRestoration
  measurementReporting
  measurementTermination
  measurementFailure
  downlinkPowerControlFDD
  compressedModeCommandFDD
  compressedModeCommitFDD
  compressedModeCancellationFDD
  commonTransportChannelResourcesRelease
  errorIndication
  privateMessage
  ...
}

```

```

RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
  ...
}

```

```

-- *****
--
-- Interface Elementary Procedures
--
-- *****

```

```
radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkSetupRequestFDD
  SUCCESSFUL OUTCOME  RadioLinkSetupResponseFDD
  UNSUCCESSFUL OUTCOME  RadioLinkSetupFailureFDD
  PROCEDURE ID        { procedureCode id-radioLinkSetup, ddMode fdd }
  CRITICALITY         reject
}

radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkSetupRequestTDD
  SUCCESSFUL OUTCOME  RadioLinkSetupResponseTDD
  UNSUCCESSFUL OUTCOME  RadioLinkSetupFailureTDD
  PROCEDURE ID        { procedureCode id-radioLinkSetup, ddMode tdd }
  CRITICALITY         reject
}

radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkAdditionRequestFDD
  SUCCESSFUL OUTCOME  RadioLinkAdditionResponseFDD
  UNSUCCESSFUL OUTCOME  RadioLinkAdditionFailureFDD
  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
  PROCEDURE ID        { procedureCode id-radioLinkDeletion, ddMode common }
  CRITICALITY         reject
}

synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationPrepareFDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationReadyFDD
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  PROCEDURE ID        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode fdd }
  CRITICALITY         reject
}

synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationPrepareTDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationReadyTDD
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  PROCEDURE ID        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode tdd }
}
```

```

    CRITICALITY    reject
}

unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationRequestFDD
    SUCCESSFUL OUTCOME  RadioLinkReconfigurationResponse
    UNSUCCESSFUL OUTCOME RadioLinkReconfigurationFailure
    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
    PROCEDURE ID       { procedureCode id-physicalChannelReconfiguration, ddMode fdd }
    CRITICALITY        reject
}

physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  PhysicalChannelReconfigurationRequestTDD
    SUCCESSFUL OUTCOME  PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME PhysicalChannelReconfigurationFailure
    PROCEDURE ID       { procedureCode id-physicalChannelReconfiguration, ddMode tdd }
    CRITICALITY        reject
}

measurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME  DedicatedMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME DedicatedMeasurementInitiationFailure
    PROCEDURE ID       { procedureCode id-measurementInitiation, ddMode common }
    CRITICALITY        reject
}

compressedModePreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  CompressedModePrepare
    SUCCESSFUL OUTCOME  CompressedModeReady
    UNSUCCESSFUL OUTCOME CompressedModeFailure
    PROCEDURE ID       { procedureCode id-compressedModePrepareFDD, ddMode fdd }
    CRITICALITY        reject
}

commonTransportChannelResourcesInitiationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  CommonTransportChannelResourcesRequest

```

```

    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseFDD
    UNSUCCESSFUL OUTCOME CommonTransportChannelResourcesFailure
    PROCEDURE ID { procedureCode id-commonTransportChannelResourcesInitiationFDD, ddMode common }
    CRITICALITY reject
}

commonTransportChannelResourcesInitiationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
    UNSUCCESSFUL OUTCOME CommonTransportChannelResourcesFailure
    PROCEDURE ID { procedureCode id-commonTransportChannelResourcesInitiationTDD, ddMode common }
    CRITICALITY reject
}

uplinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndication
    PROCEDURE ID { procedureCode id-uplinkSignallingTransfer, ddMode common }
    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 ignore
}

paging RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PagingRequest
    PROCEDURE ID { procedureCode id-pagingRequest, ddMode common }
    CRITICALITY ignore
}

synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
    PROCEDURE ID { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY ignore
}

synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
    PROCEDURE ID { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    CRITICALITY ignore
}

radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
    PROCEDURE ID { procedureCode id-radioLinkFailure, ddMode common }
}

```

```

    CRITICALITY    ignore
}

radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE    RadioLinkRestoreIndication
    PROCEDURE ID          { procedureCode id-radioLinkRestoration, ddMode common }
    CRITICALITY          ignore
}

measurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE    DedicatedMeasurementReport
    PROCEDURE ID          { procedureCode id-measurementReporting, ddMode common }
    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
    PROCEDURE ID          { 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
}

compressedModeCancellationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE    CompressedModeCancel
    PROCEDURE ID          { procedureCode id-compressedModeCancellationFDD, 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
}

```

```

    PROCEDURE ID      { procedureCode id-errorIndication, ddMode common }
    CRITICALITY      ignore
}

privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PrivateMessage
    PROCEDURE ID      { procedureCode id-privateMessage, ddMode common }
    CRITICALITY      ignore
}

END

```

9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
| Active-Pattern-Sequence-Information,
  AllocationRetentionPriority,
  AllowedQueuingTime,
  BLER,
  BindingID,
  BurstType,
  C-ID,
  C-RNTI,
  CCTrCH-ID,
  CellIndividualOffset,
  CFN,
| CFNOffset,
  ClosedLoopModel-SupportIndicator,
  ClosedLoopMode2-SupportIndicator,
  CN-CS-DomainIdentifier,
  CN-PS-DomainIdentifier,
  Cause,
  CellParameterID,
  ChipOffset,

```


~~CompressedModeMethod,~~
CriticalityDiagnostics,
D-FieldLength,
D-RNTI,
D-RNTI-ReleaseIndication,
DCH-CombinationInd,
DCH-ID,
DL-DPCH-SlotFormat,
DL-SIRTarget,
~~DL-FrameType,~~
DL-Power,
DL-ScramblingCode,
DPCHConstantValue,
DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
FACH-InitialWindowSize,
FACH-PriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FrameHandlingPriority,
FrameOffset,
~~GapPeriod,~~
~~GapPositionMode,~~
IB-SG-POS,
IB-SG-REP,
IMSI,
L3-Information,
LimitedPowerIncrease,
MAC-c-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
~~PD,~~
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
~~PowerControlMode,~~
PowerOffset,
~~PowerResumeMode,~~
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,

PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RANAP-RelocationInformation,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
ScaledMaxAdjustmentPeriod,
ScaledMaxAdjustmentStep,
~~ScramblingCodeChange,~~
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
~~TGD,~~
~~TGL,~~
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
~~Transmission-Gap-Pattern-Sequence-Information,~~
~~Transmission-Gap-Pattern-Sequence-Information-Response,~~
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
~~UL-DeltaSIR,~~
~~UL-DeltaSIRAfter,~~
~~UL-DL-CompressedModeSelection,~~

```

    UL-DPCCH-SlotFormat,
    UL-InterferenceLevel,
    UL-SIR,
    UL-FP-Mode,
    UL-ScramblingCode,
    URA-ID
FROM RNSAP-IEs

```

```

    PrivateIE-Container{},
    ProtocolExtensionContainer{},
    ProtocolIE-ContainerList{},
    ProtocolIE-ContainerPair{},
    ProtocolIE-ContainerPairList{},
    ProtocolIE-Container{},
    RNSAP-PRIVATE-IES,
    RNSAP-PROTOCOL-EXTENSION,
    RNSAP-PROTOCOL-IES,
    RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

```

```

    maxNrOfCCTrCHs,
    maxNrOfDCHs,
    maxNrOfDL-Codes,
    maxNrOfDPCHs,
    maxNrOfMACcSDU-Length,
    maxNrOfRLs,
    maxNrOfRLSets,
    maxNrOfRLs-1,
    maxNrOfRLs-2,
    maxNrOfSCCPCHs,
    maxNrOfULTs,
    maxNrOfCMPatterns,
    maxRNCinURA,
    maxNrOfNeighbouringRNCs,
    maxNrOfFDDNeighboursPerRNC,
    maxNrOfTDDNeighboursPerRNC,
    maxFACHCountPlus1,
    maxIBSEG,

```

id-Active-Pattern-Sequence-Information,

```

    id-AllRLItem-DM-Rprt,
    id-AllRLItem-DM-Rsp,
    id-AllRL-SetItem-DM-Rprt,
    id-AllRL-SetItem-DM-Rsp,
    id-AllowedQueuingTime,
    id-BindingID,
    id-C-ID,
    id-C-RNTI,
    id-CFN,
    id-CN-CS-DomainIdentifier,
    id-CN-PS-DomainIdentifier,
    id-Cause,
    id-CellItem-PagingRqst,

```

~~id-CM-PatternInformationItem-CompressedModePrep,~~
~~id-CM-PatternInformationList-CompressedModePrep,~~
 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-AddListIE-RL-ReconfReadyFDD,
 id-DCH-AddListIE-RL-ReconfReadyTDD,
 id-DCH-AddListIE-RL-ReconfRsp,
 id-DCH-AddList-RL-ReconfPrepFDD,
 id-DCH-AddList-RL-ReconfPrepTDD,
 id-DCH-AddList-RL-ReconfRqstFDD,
 id-DCH-AddList-RL-ReconfRqstTDD,
 id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfRqstFDD,
 id-DCH-DeleteList-RL-ReconfRqstTDD,
 id-DCH-Information-RL-SetupRqstFDD,
 id-DCH-InformationList-RL-SetupRqstTDD,
 id-DCH-ModifyListIE-RL-ReconfReadyFDD,
 id-DCH-ModifyListIE-RL-ReconfReadyTDD,
 id-DCH-ModifyListIE-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-InformationItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationItem-SetupRqstTDD,
 id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationList-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-SetupRqstFDD,
 id-DL-DPCH-Information-RL-ReconfRqstFDD,
 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
 id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
 id-DL-DPCH-InformationItem-RL-SetupRspTDD,

id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD,
id-DL-SIRTarget,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rqst,
id-DL-ReferencePowerInformation-DL-PC-Rqst,
id-DRXCycleLengthCoefficient,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
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-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD,
id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD,
id-IMSI,
id-L3-Information,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
id-MaxAdjustmentPeriod,
id-MaxAdjustmentStep,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MultipleURAsIndicator,
id-NeighbouringFDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringFDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-SetupRsp,
id-NeighbouringTDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringTDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-SetupRsp,
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
id-Neighbouring-CellInformationItem-RL-SetupRsp,
id-NonCombiningItem-RL-AdditionFailureFDD,
id-NonCombiningItem-RL-AdditionRspFDD,
id-NonCombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD,
id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD,
id-PagingArea-PagingRqst,
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-RANAP-RelocationInformation,

id-RL-Information-PhyChReconfRqstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRqstFDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-DeletionRqst,
id-RL-Information-RL-FailureInd,
id-RL-Information-RL-ReconfPrepFDD,
id-RL-Information-RL-RestoreInd,
id-RL-Information-RL-SetupRqstFDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRqstFDD,
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-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-ReconfigurationFailureList-RL-ReconfFail,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rqst,
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-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
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-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-Transmission-Gap-Pattern-Sequence-Information,
id-UC-ID,
id-UL-CCTrCH-Information-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
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-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAIItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD
FROM RNSAP-Constants;

```

```

-- *****
--
-- Common Container List
--
-- *****

```

```

DPCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IESetParam } }
RL-IE-ContainerList0      { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IESetParam } }
RL-IE-ContainerList1      { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { IESetParam } }
RL-IE-ContainerList1-1    { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs-1, { IESetParam } }
RL-IE-ContainerList0-1    { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-1, { IESetParam } }
RL-IE-ContainerList0-2    { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IESetParam } }
RL-Set-IE-ContainerList   { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IESetParam } }
CCTrCH-IE-ContainerList0  { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IESetParam } }
CCTrCH-IE-ContainerList1  { RNSAP-PROTOCOL-IES : IESetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IESetParam } }

```

```

-- *****
--
-- RADIO LINK SETUP REQUEST FDD

```

```

--
-- *****
RadioLinkSetupRequestFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkSetupRequestFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI                CRITICALITY reject TYPE S-RNTI                PRESENCE mandatory } |
    { ID id-D-RNTI                CRITICALITY reject TYPE D-RNTI                PRESENCE optional   } |
    { ID id-AllowedQueuingTime    CRITICALITY reject TYPE AllowedQueuingTime    PRESENCE optional   } |
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DCH-Information-RL-SetupRqstFDD    CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-RL-Information-RL-SetupRqstFDD     CRITICALITY notify  TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }
}
}
{ ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
...
}

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-TFCS                           TFCS,
    ul-DPCCH-SlotFormat               UL-DPCCH-SlotFormat,
    ul-SIRTarget                       UL-SIR                  OPTIONAL,
    diversityMode                      DiversityMode,
    d-FieldLength                      D-FieldLength          OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellIdLength                 SSDT-CellIdLength      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-SetupRqstFDD ::= SEQUENCE {
    tFCS                               TFCS,
    dl-DPCH-SlotFormat                 DL-DPCH-SlotFormat,
    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 {

```



```

        po1-ForTFCI-Bits           PowerOffset,
        po2-ForTPC-Bits           PowerOffset,
        po3-ForPilotBits         PowerOffset,
        ...
    },
    fdd-dl-TPC-DownlinkStepSize   FDD-TPC-DownlinkStepSize,
    iE-Extensions                 ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstFDD          ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                               DCH-ID,
    dCH-CombinationInd                   DCH-CombinationInd          OPTIONAL,
    limitedPowerIncrease                 LimitedPowerIncrease,
    trCH-SrcStatisticsDescr              TrCH-SrcStatisticsDescr,
    ul-transportFormatSet                TransportFormatSet,
    dl-transportFormatSet                TransportFormatSet,
    ul-BLER                              BLER,
    dl-BLER                              BLER,
    allocationRetentionPriority           AllocationRetentionPriority,
    frameHandlingPriority                 FrameHandlingPriority,
    payloadCRC-PresenceIndicator          PayloadCRC-PresenceIndicator,
    ul-FP-Mode                           UL-FP-Mode,
    qE-Selector                           QE-Selector,
    toAWS                                 ToAWS,
    toAWE                                 ToAWE,
    dRACControl                           DRACControl,
    iE-Extensions                         ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupRqstFDD          ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD PRESENCE mandatory },
    ...
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    c-ID                                 C-ID,
    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-InitialTX-Power        DL-Power          OPTIONAL,
primaryCPICH-EcNo         PrimaryCPICH-EcNo   OPTIONAL,
sSDT-CellID               SSDT-CellID         OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions             ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

. . . Partly omitted . . .

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
  ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-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-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-SetupRspFDD
    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

```

```

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  sAI                 SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-SetupRspFDD OPTIONAL,
  dl-CodeInformation  DL-CodeInformationList-RL-SetupRspFDD,
  diversityIndication DiversityIndication-RL-SetupRspFDD,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  maxUL-SIR           UL-SIR,
  minUL-SIR           UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  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 ::= 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-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 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   SegmentInformationList-RL-SetupRspFDD,
    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            ProtocolExtensionContainer { { SegmentInformationItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

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-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrIENotPresent NonCombiningOrIENotPresen-RL-SetupRspFDD,
    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-CombiningItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrIEnotPresen-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrIEnotPresenIE-RL-SetupRspFDD }}

NonCombiningOrIEnotPresenIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrIEnotPresenItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE    NonCombiningOrIEnotPresenItem-RL-SetupRspFDD    PRESENCE
    mandatory },
    ...
}

NonCombiningOrIEnotPresenItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-SetupRspFDD    DCH-InformationResponseList-RL-SetupRspFDD    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { NonCombiningOrIEnotPresenItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningOrIEnotPresenItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (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 ::= {
    ...
}

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-
CellInformationItemIE-RL-SetupRsp }}

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-SetupRsp    CRITICALITY ignore    TYPE    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,
    iE-Extensions        ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

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,
    txDiversityIndicator TxDiversityIndicator OPTIONAL,
    sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
    closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= 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 -- ,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue  DPCHConstantValue OPTIONAL,
    pCCPCH-Power        PCCPCH-Power OPTIONAL,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

. . . Partly omitted . . .

-- *****
--
-- RADIO LINK ADDITION REQUEST FDD
--
-- *****

RadioLinkAdditionRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{RadioLinkAdditionRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-SIRTarget          CRITICALITY reject TYPE UL-SIR          PRESENCE mandatory } |
    { ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD PRESENCE mandatory } |
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional } —,
    ...
}

RL-InformationList-RL-AdditionRqstFDD ::= RL-IE-ContainerList1-1 { {RL-Information-RL-AdditionRqstFDD-IEs} }

RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRqstFDD PRESENCE mandatory },
    ...
}

RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID          C-ID,
    frameOffset   FrameOffset,
    chipOffset    ChipOffset,
    diversityControlField DiversityControlField,
    primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL,
    sSDT-CellID   SSDT-CellID OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,

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```

}
...
}
RL-Information-RL-AdditionRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

. . . Partly omitted . . .

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}    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-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
          CRITICALITY ignore    TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE mandatory    },
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    rL-Set-ID      RL-Set-ID,
    sAI            SAI,
    ul-InterferenceLevel    UL-InterferenceLevel,
    secondary-CCPCH-Info    Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation    DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication    DiversityIndication-RL-AdditionRspFDD,
    sSDT-SupportIndicator    SSDT-SupportIndicator,
    minUL-SIR        UL-SIR,
    maxUL-SIR        UL-SIR,

```



```

    maximumAllowedULTxPower      MaximumAllowedULTxPower,
    neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= 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-AdditionRspFDD,
    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 {
    transportFormatSet         TransportFormatSet,
    iE-Extensions             ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-Rep                 IB-SG-REP,
    segmentInformationList     SegmentInformationList-RL-AdditionRspFDD,
    iE-Extensions             ProtocolExtensionContainer { { SchedulingInformation-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

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,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-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-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-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

```

```

CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-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,
    iE-Extensions        ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF Neighbouring-CellInformationItem-RL-AdditionRsp

Neighbouring-CellInformationItem-RL-AdditionRsp ::= 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-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 ::= SEQUENCE {
  c-ID                C-ID,
  uARFCNforNu        UARFCN,
  uARFCNforNd        UARFCN,
  frameOffset        FrameOffset          OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power    OPTIONAL,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  txDiversityIndicator TxDiversityIndicator OPTIONAL,
  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 ::= 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 -- ,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  dPCHConstantValue DPCHConstantValue   OPTIONAL,
  pCCPCH-Power      PCCPCH-Power,
  iE-Extensions      ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
  ...
}

Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

. . . Partly omitted . . .

```

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationPrepareFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-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-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-DPDCHs          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit          PunctureLimit          OPTIONAL,
    tFCS                       TFCS                OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
    sSDT-CellIDLength          SSDT-CellID-Length          OPTIONAL,
    s-FieldLength              S-FieldLength              OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS                       TFCS                OPTIONAL,
    dl-DPCH-SlotFormat         DL-DPCH-SlotFormat        OPTIONAL,
    tFCI-SignallingMode        TFCI-SignallingMode        OPTIONAL,
    tFCI-Presence              TFCI-Presence            OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 --,

```

```

multiplexingPosition      MultiplexingPosition      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 {
dCH-ID                    DCH-ID,
ul-TransportformatSet     TransportFormatSet      OPTIONAL,
dl-TransportformatSet     TransportFormatSet      OPTIONAL,
allocationRetentionPriority AllocationRetentionPriority  OPTIONAL,
frameHandlingPriority     FrameHandlingPriority    OPTIONAL,
ul-FP-Mode                UL-FP-Mode             OPTIONAL,
toAWS                     ToAWS                 OPTIONAL,
toAWE                     ToAWE                 OPTIONAL,
dRACControl               DRACControl           OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

```

```

DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD

```

```

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID                    DCH-ID,
dCH-CombinationInd        DCH-CombinationInd     OPTIONAL,
limitedPowerIncrease       LimitedPowerIncrease,
trCH-SrcStatisticsDescr   TrCH-SrcStatisticsDescr,
ul-TransportformatSet     TransportFormatSet,
dl-TransportformatSet     TransportFormatSet,
ul-BLER                   BLER,
dl-BLER                   BLER,
allocationRetentionPriority AllocationRetentionPriority,
frameHandlingPriority     FrameHandlingPriority,
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode                UL-FP-Mode,
qE-Selector               QE-Selector,
toAWS                     ToAWS,
toAWE                     ToAWE,
dRACControl               DRACControl,
iE-Extensions             ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

```

```

DCH-AddItem-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,
    iE-Extensions         ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }

RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDD    CRITICALITY reject    TYPE RL-Information-RL-ReconfPrepFDD    PRESENCE mandatory },
    ...
}

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sSDT-Indication      SSDT-Indication    OPTIONAL,
    sSDT-CellIdentity    SSDT-CellID        OPTIONAL
    -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    iE-Extensions         ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

. . . Partly omitted . . .

-- *****
--
-- RADIO LINK RECONFIGURATION READY FDD
--
-- *****

RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{RadioLinkReconfigurationReadyFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}
    ...
}
OPTIONAL,

```

```

RadioLinkReconfigurationReadyFDD-IES RNSAP-PROTOCOL-IES ::= {
  optional { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD PRESENCE
  } |
  { 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 ::= {
  mandatory { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD PRESENCE
  },
  ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
  rL-ID RL-ID,
  max-UL-SIR UL-SIR OPTIONAL,
  min-UL-SIR UL-SIR OPTIONAL,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfReadyFDD OPTIONAL,
  dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD OPTIONAL,
  dCHsToBeAdded DCH-AddList-RL-ReconfReadyFDD OPTIONAL,
  dCHsToBeModified DCH-ModifyList-RL-ReconfReadyFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
  ...
}

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 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-ReconfReadyFDD-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                    IB-SG-POS,
    iE-Extensions                ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}

DL-CodeInformationListIEs-RL-ReconfReadyFDD 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 Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

DCH-AddList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfReadyFDD} }

DCH-AddListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DCH-AddListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfReadyFDD PRESENCE mandatory },
  ...
}

DCH-AddListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReadyFDD

DCH-AddItem-RL-ReconfReadyFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-AddItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-ModifyList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfReadyFDD} }

DCH-ModifyListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DCH-ModifyListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfReadyFDD PRESENCE mandatory },
  ...
}

DCH-ModifyListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReadyFDD

DCH-ModifyItem-RL-ReconfReadyFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-ModifyItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

. . . Partly omitted . . .

```

```
-- *****
--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****
```

```
RadioLinkReconfigurationCommit ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationCommit-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}}
    ...
}
```

```
RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CFN          CRITICALITY ignore TYPE CFN          PRESENCE mandatory }_1_7
    { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    ...
}
```

```
RadioLinkReconfigurationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

. . . Partly omitted . . .

```
-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST FDD
--
-- *****
```

```
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
    ...
}
```

```
RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstFDD 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 }_1_7
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }_1_7
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    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                TFCS        OPTIONAL,
    tFCI-SignallingMode TFCI-SignallingMode 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 {
    dCH-ID                DCH-ID,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    ul-FP-Mode            UL-FP-Mode        OPTIONAL,
    toAWS                 ToAWS            OPTIONAL,
    toAWE                 ToAWE            OPTIONAL,
    dRACControl           DRACControl       OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfRqstFDD                ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstFDD

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    dCH-CombinationInd     DCH-CombinationInd OPTIONAL,
    limitedPowerIncrease   LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet  TransportFormatSet,
    dl-TransportformatSet  TransportFormatSet,
    ul-BLER                BLER,
    dl-BLER                BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode            UL-FP-Mode,
    qE-Selector           QE-Selector,

```

```

toAWS                ToAWS,
toAWE                ToAWE,
dRACControl          DRACControl,
iE-Extensions        ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

DCH-AddItem-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                DCH-ID,
iE-Extensions        ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

```

```

DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

. . . Partly omitted . . .

```

-- *****
--
-- RADIO LINK RECONFIGURATION RESPONSE
--
-- *****

```

```

RadioLinkReconfigurationResponse ::= SEQUENCE {
protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationResponse-IEs}},
protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
...
}

```

```

RadioLinkReconfigurationResponse-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-InformationResponseList-RL-ReconfRsp    CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRsp    PRESENCE optional } |
{ ID id-CriticalityDiagnostics                    CRITICALITY ignore TYPE CriticalityDiagnostics        PRESENCE optional },
...
}

```

```

RL-InformationResponseList-RL-ReconfRsp ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfRsp-IEs} }

```

```

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,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp  OPTIONAL,
  dCHsToBeAdded        DCH-AddList-RL-ReconfRsp          OPTIONAL,
  dCHsToBeModified     DCH-ModifyList-RL-ReconfRsp       OPTIONAL,
  dl-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
  ...
}

```

```

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 ::= SEQUENCE (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,
    iE-Extensions            ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfRsp

SegmentInformationItem-RL-ReconfRsp ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfRsp      ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfRsp} }

DCH-AddListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddListIE-RL-ReconfRsp    CRITICALITY ignore  TYPE DCH-AddListIE-RL-ReconfRsp  PRESENCE mandatory  },
    ...
}

DCH-AddListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRsp

DCH-AddItem-RL-ReconfRsp ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                  BindingID,
    transportLayerAddress     TransportLayerAddress,
    iE-Extensions             ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfRsp   ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfRsp} }

DCH-ModifyListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyListIE-RL-ReconfRsp  CRITICALITY ignore  TYPE DCH-ModifyListIE-RL-ReconfRsp  PRESENCE mandatory  },
    ...
}

DCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRsp

```

```
DCH-ModifyItem-RL-ReconfRsp ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}
```

```
DCH-ModifyItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DL-CodeInformationList-RL-ReconfRsp ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-ReconfRsp }}
```

```
DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-ReconfRsp CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfRsp 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,
    iE-Extensions                    ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}
```

```
DL-CodeInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
RadioLinkReconfigurationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

. . . Partly omitted . . .

```
-- *****
--
-- COMPRESSED MODE COMMAND
--
-- *****
```

```
CompressedModeCommand ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container {{CompressedModeCommand-IEs}},
    protocolExtensions        ProtocolExtensionContainer {{CompressedModeCommand-Extensions}} OPTIONAL,
    ...
}
```



```

CompressedModeCommand-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE mandatory },
  ...
}

```

```

CompressedModeCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-----
--
-- COMPRESSED MODE PREPARE
--
-----

```

```

CompressedModePrepare ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CompressedModePrepare-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModePrepare-Extensions}} OPTIONAL,
  ...
}

```

```

CompressedModePrepare-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationList-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationList-CompressedModePrep PRESENCE mandatory },
  ...
}

```

```

CM-PatternInformationList-CompressedModePrep ::= SEQUENCE (SIZE (1..maxNrOfCmpatterns)) OF ProtocolIE-Container {{ CM-PatternInformationItemIE-CompressedModePrep }}

```

```

CM-PatternInformationItemIE-CompressedModePrep RNSAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationItem-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationItem-CompressedModePrep PRESENCE mandatory },
  ...
}

```

```

CM-PatternInformationItem-CompressedModePrep ::= SEQUENCE {
  cFNOffset CFNOffset,
  tGP1 GapPeriod,
  tGP2 GapPeriod OPTIONAL,
  tGL TGL,
  tGD TGD,
  pD PD,
  ul-DL-CompressedModeSelection UL-DL-CompressedModeSelection,
  compressedModeMethod CompressedModeMethod,
  gapPositionMode GapPositionMode,
  sN TimeSlot OPTIONAL,
  -- This IE is present if Gap position mode = 'flexible position' --
  dl-FrameType DL-FrameType,
  scramblingCodeChange ScramblingCodeChange OPTIONAL,
  -- This IE is present if Compressed mode method = 'SF/2' --
  powerControlMode PowerControlMode,
  powerResumeMode PowerResumeMode,
}

```

```

ul-DeltaSIR UL-DeltaSIR,
ul-DeltaSIRAfter UL-DeltaSIRAfter,
iE-Extensions ProtocolExtensionContainer { { CM-PatternInformationItem-CompressedModePrep-ExtIEs } } OPTIONAL,
...
}

CM-PatternInformationItem-CompressedModePrep-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
...
}

CompressedModePrepare-Extensions-RNSAP-PROTOCOL-EXTENSION ::= {
...
}

*****
--
-- COMPRESSED-MODE-READY
--
*****

CompressedModeReady ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{CompressedModeReady-IEs}},
protocolExtensions ProtocolExtensionContainer {{CompressedModeReady-Extensions}} OPTIONAL,
...
}

CompressedModeReady-IEs-RNSAP-PROTOCOL-IES ::= {
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

CompressedModeReady-Extensions-RNSAP-PROTOCOL-EXTENSION ::= {
...
}

*****
--
-- COMPRESSED-MODE-FAILURE
--
*****

CompressedModeFailure ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{CompressedModeFailure-IEs}},
protocolExtensions ProtocolExtensionContainer {{CompressedModeFailure-Extensions}} OPTIONAL,
...
}

CompressedModeFailure-IEs-RNSAP-PROTOCOL-IES ::= {
{ ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

```

```

CompressedModeFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-----
-- COMPRESSED-MODE-COMMIT
-----

CompressedModeCommit ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CompressedModeCommit-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModeCommit-Extensions}} OPTIONAL,
  ...
}

CompressedModeCommit-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory },
  ...
}

CompressedModeCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-----
-- COMPRESSED-MODE-CANCEL
-----

CompressedModeCancel ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CompressedModeCancel-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModeCancel-Extensions}} OPTIONAL,
  ...
}

CompressedModeCancel-IEs RNSAP-PROTOCOL-IES ::= {
  ...
}

CompressedModeCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

. . . Partly omitted . . .

9.3.4 Information Element Definitions

```
-- *****
```

```

--
-- Information Element Definitions
--
-- *****

RNSAP-IEs -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    maxNrOfErrors,
    maxRateMatching,
    maxNrOfTFCs,
    maxNrOfTFs,
    maxCTFC-1,
    maxTGPS,
    maxTTI-Count
FROM RNSAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes

    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;

-- A

ActivationCFN ::= INTEGR (0..255)

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cmConfigurationChangeCFN activationCFN ActivationCFN,
    transmission-Gap-Pattern-Sequence-Status active-Pattern-Sequence-Information-List Transmission-Gap-Pattern-Sequence-Status-List Active-
Pattern-Sequence-Information-List,
    iE-Extensions ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List Active-Pattern-Sequence-Information-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
SEQUENCE {
    tGPSI          TGPSI,
    tGPRC          TGPRC,
    tGCFN          TGCFN,

```

```

    iE-Extensions      ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-List-ExtIEs} } OPTIONAL,
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List Active-Pattern-Sequence-Information-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllocationRetentionPriority ::= FrameHandlingPriority

AllowedQueuingTime ::= INTEGER (0..60)
-- seconds

-- B

BetaCD ::= INTEGER (0..15)

BindingID ::= OCTET STRING (SIZE (1..4,...))

BLER ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER

BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2)
}

-- 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,  
...  
}  
  
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,  
    macrodiversity-combining-not-possible,  
    reconfiguration-not-allowed,  
    requested-configuration-not-supported,  
    synchronisation-failure,  
    invalid-CM-settings,  
    unspecified,  
    ...  
}  
  
CauseTransport ::= ENUMERATED {  
    transmission-link-failure,  
    transmission-port-not-available,  
    unspecified,  
    ...  
}  
  
C-ID ::= INTEGER (0..65535)  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CellIndividualOffset ::= INTEGER (-20..20)  
  
CellParameterID ::= INTEGER (0..127)  
  
CFN ::= INTEGER (0..255)  
  
CFNOffset ::= 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
}
```

```
CodingRate ::= ENUMERATED {
  half,
  third
}
```

```
CompressedModeMethod ::= ENUMERATED {
  none,
  puncturing,
  half-SF,
  higher-Layer-Scheduling
}
```

```
CRC-Size ::= ENUMERATED {
  v0,
  v8,
  v12,
  v16,
  v24
}
```

```
CriticalityDiagnostics ::= SEQUENCE {
  procedureCode          ProcedureCode          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 {
    criticalityResponse    Criticality,
    iE-ID                  ProtocolIE-ID,
    repetitionNumber       RepetitionNumber      OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
  }
```

```
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```

CTFC ::= INTEGER (0..maxCTFC-1)

CN-CS-DomainIdentifier ::= SEQUENCE {
    pLMN-ID          PLMN-ID,
    lAC              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              RAC,
    iE-Extensions    ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
}

CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

C-RNTI ::= INTEGER (0..65535)

-- D

DCH-CombinationInd ::= INTEGER (0..255)

DCH-ID ::= INTEGER (0..255)

DedicatedMeasurementObjectType ::= ENUMERATED {
    rl,
    rls,
    all-rl,
    all-rls,
    ...
}

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    ...
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue     SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
    rSCP              RSCP-Value, -- TDD only
    ...
}

```



```
}  
  
DeltaSIR ::= INTEGER (0..30)  
-- Step 0.1 (Range 0..3).  
  
DiversityControlField ::= ENUMERATED {  
    may,  
    must,  
    must-not  
}  
  
DiversityMode ::= ENUMERATED {  
    none,  
    sTTD,  
    closedLoopModel,  
    closedLoopMode2  
}  
  
DL-DPCH-SlotFormat ::= INTEGER (0..16)  
  
DL-SIRTarget ::= UL-SIR  
  
DL-Power ::= INTEGER (-350..150)  
-- 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,  
    ...  
}  
  
Downlink-Compressed-Mode-Method ::= ENUMERATED {  
    puncturing,  
    sFdiv2,  
    higher-layer-scheduling,  
    none  
}  
  
DPCH-ID ::= INTEGER (0..239)  
  
DPCHConstantValue ::= INTEGER (-32..31)  
-- Unit dBm, Step 1dBm
```

```

DRACControl ::= ENUMERATED {
    requested,
    not-requested
}

DRXCycleLengthCoefficient ::= INTEGER (2..12)

D-FieldLength ::= ENUMERATED {
    v1,
    v2
}

-- E

EventA ::= SEQUENCE {
    measurementTreshold MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
    ...
}

EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

EventB ::= SEQUENCE {
    measurementTreshold MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,
    ...
}

EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

EventC ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime MeasurementChangeTime,
    iE-Extensions ProtocolExtensionContainer { {EventC-ExtIEs} } OPTIONAL,
    ...
}

EventC-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

EventD ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime MeasurementChangeTime,
    iE-Extensions ProtocolExtensionContainer { {EventD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

EventD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

EventE ::= SEQUENCE {
    measurementThreshold1      MeasurementThreshold,
    measurementThreshold2      MeasurementThreshold      OPTIONAL,
    measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
    reportPeriodicity          ReportPeriodicity          OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
    ...
}

EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

EventF ::= SEQUENCE {
    measurementThreshold1      MeasurementThreshold,
    measurementThreshold2      MeasurementThreshold      OPTIONAL,
    measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
    reportPeriodicity          ReportPeriodicity          OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
    ...
}

EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- F

FACH-InitialWindowSize      ::= INTEGER { unlimited(255) } (0..255)
-- Number of frames MAC-c SDUs.
-- 255 = Unlimited number of FACH data frames

FDD-DL-ChannelisationCodeNumber ::= INTEGER (0..255)

FDD-S-CCPCH-Offset          ::= INTEGER (0..149)

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    ...
}

FACH-PriorityIndicator      ::= INTEGER { lowest(0), highest(15) } (0..15)

FrameHandlingPriority        ::= INTEGER { lowest(0), highest(15) } (0..15)

FrameOffset                 ::= INTEGER (0..255)

```

```
-- Frames

-- G

GapLength ::= INTEGER (1..14)
GapDuration ::= INTEGER (1..144)
GapPositionMode ::= ENUMERATED {
fixed,
flexible
}
GapPeriod ::= INTEGER (0..255)

-- H

-- I

IB-SG-POS ::= INTEGER (0..4095)

IB-SG-REP ::= INTEGER (16| 32| 64| 128| 256| 512| 1024| 2480)

IMSI ::= OCTET STRING (SIZE(3..8))

ITPPRM ::= ENUMERATED {
mode-0,
mode-1
}

-- J
-- K
-- L

LAC ::= OCTET STRING (SIZE (2)) --(EXCEPT ('0000'H|'FFFF'H))

L3-Information ::= BIT STRING

-- M

MaxNrOfUL-DPCHs ::= INTEGER (1..6)

MAC-c-SDU-Length ::= INTEGER (1..5000)

MaximumAllowedULTxPower ::= INTEGER (-50..33)

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

MultipleURAsIndicator ::= ENUMERATED {
```

```
    multiple-URAs-exist,  
    single-URA-exists  
}  
  
ScaledMaxAdjustmentPeriod      ::= INTEGER(1..50)  
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod  
  
ScaledMaxAdjustmentStep       ::= INTEGER(1..10)  
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10  
  
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                              RSCP-Value-IncrDecrThres,  
    ...  
}  
  
MeasurementThreshold          ::= CHOICE {  
    sir                               SIR-Value,  
    sir-error                       SIR-Error-Value,  
    transmitted-code-power         Transmitted-Code-Power-Value,  
    rscp                            RSCP-Value,  
    ...  
}  
  
MidambleShift                ::= INTEGER (0..15)  
  
MinUL-ChannelisationCodeLength ::= ENUMERATED {  
    v4,  
    v8,  
    v16,  
    v32,  
    v64,  
    v128,  
    v256  
}  
  
MultiplexingPosition ::= ENUMERATED {  
    fixed,  
    flexible
```

```

}

-- N

NrOfTransportBlocks ::= INTEGER (0..4095)

-- O

-- P

PD ::= INTEGER (0..2047, ...)

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

SCH-TimeSlot ::= INTEGER (0..6)

Periodic ::= SEQUENCE {
    reportPeriodicity ReportPeriodicity,
    iE-Extensions ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    ...
}

Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PLMN-ID ::= OCTET STRING (SIZE(3))

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

PowerControlMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PowerOffset ::= INTEGER (0..24)

PowerResumeMode ::= ENUMERATED {
    v0,

```

```

-----v1,
-----...
}

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 mapping in 25.225

PrimaryScramblingCode      ::= INTEGER (0..511)

PropagationDelay           ::= INTEGER (0..255)

SyncCase ::= ENUMERATED {
    case1,
    case2
}

PunctureLimit              ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100

-- Q

QE-Selector ::= ENUMERATED {
    selected-DCH,
    non-selected-DCH
}

-- R

RAC                        ::= OCTET STRING (SIZE(1))

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute      ::= INTEGER (1..maxRateMatching)

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength          ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64
}
```

```
RepetitionNumber ::= INTEGER (0..255)
```

```
ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          Periodic,
    eventA            EventA,
    eventB            EventB,
    eventC            EventC,
    eventD            EventD,
    eventE            EventE,
    eventF            EventF,
    ...
}
```

```
ReportPeriodicity ::= CHOICE {
    ten-msec          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
    min              INTEGER (1..60)
    -- Unit min, Step 1min
}
```

```
LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}
```

```
RL-ID                ::= INTEGER (0..31)
```

```
RL-Set-ID            ::= INTEGER (0..31)
```

```
RNC-ID               ::= INTEGER (0..4095)
```

```
RPM ::= ENUMERATED {
    mode-0,
    mode-1
}
```

```
RSCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225
```

```
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)
```

```
-- 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 ::= {
    ...
}

ScramblingCodeChange ::= ENUMERATED {
code-change,
no-code-change
}

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

SN      ::= TimeSlot

S-FieldLength      ::= ENUMERATED {
    v1,
    v2
}

S-RNTI      ::= INTEGER (0..1048575)
-- From 0 to 2^20-1

SSDT-CellID ::= ENUMERATED {
    a,
    b,
    c,
    d,
    e,
    f,
    g,
    h
}

SSDT-CellID-Length ::= ENUMERATED {
    short,
    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
}

-- T

TDD-ChannelisationCode ::= ENUMERATED {
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    ...
}
```

```

}

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}

TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32
}

TFCI-Presence ::= ENUMERATED {
    present,
    not-present
}

TFCI-SignallingMode ::= ENUMERATED {
    normal,
    split
}

TGCFN ::= INTEGER (0..255)

TGD ::= INTEGER (0, 15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0, 1..63)
-- 0 = infinity

TGPSI ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

ToAWE ::= INTEGER (0..2559)

ToAWS ::= INTEGER (0..1279)

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
SEQUENCE {
    tGPSI TGPSI,

```

```

tGCFN      TGCFN,
tGSN      TGSN,
tGL1      GapLength,
tGL2      GapLength OPTIONAL,
tGD       TGD,
tGPL1     GapDuration,
tGPL2     GapDuration OPTIONAL,
rPM      RPM,
iTPPRM    ITPPRM,
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,
iE-Extensions ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
...

```

```

Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

```

```

Transmission-Gap-Pattern-Sequence-Information-Response ::= ENUMERATED{
code-change,
nocode-change
}

```

```

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 (1..5000)
-- Unit is bits

```

```

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors    SEQUENCE {
        betaC                BetaCD,
        betaD                BetaCD,
        refTFCNumber        RefTFCNumber    OPTIONAL
    },
    refTFCNumber            RefTFCNumber
}

TFCS ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
SEQUENCE {
    cTFC                    CTFC,
    tFC-Beta                TransportFormatCombination-Beta    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {TFCS-ExtIEs} } OPTIONAL,
    ...
}

TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet ::= SEQUENCE {
    dynamicParts            TransportFormatSet-DynamicPartList,
    semi-staticPart        TransportFormatSet-Semi-staticPart,
    iE-Extensions          ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
SEQUENCE {
    nrOfTransportBlocks    NrOfTransportBlocks,
    transportBlockSize     TransportBlockSize    OPTIONAL
    -- This IE is only present if nrOfTransportBlocks is greater than 0 --,
    mode                    TransportFormatSet-ModeDP,
    iE-Extensions          ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ModeDP ::= CHOICE {
    tdd                    TransmissionTimeIntervallList,
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent --
    ...
}

```

```

TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
  SEQUENCE {
    transmissionTimeInterval      TransmissionTimeInterval,
    iE-Extensions                 ProtocolExtensionContainer { {TransmissionTimeIntervalList-ExtIEs} } OPTIONAL,
    ...
  }

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,...)

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
  transmissionTime              TransmissionTimeInterval,
  channelCoding                 ChannelCodingType,
  codingRate                    CodingRate OPTIONAL
  -- This IE is only present if channelCoding is 'convolutional' or 'turbo' --,
  rateMatchingAttribute         RateMatchingAttribute,
  crc-Size                      CRC-Size,
  mode                          TransportFormatSet-ModeSSP,
  iE-Extensions                 ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,
  ...
}

TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
  tdd                          SecondInterleavingMode,
  ...
}

SecondInterleavingMode ::= ENUMERATED {
  frame-related,
  timeslot-related,
  ...
}

TransportLayerAddress          ::= BIT STRING (SIZE(1..160, ...))

TrCH-SrcStatisticsDescr      ::= ENUMERATED {
  speech,
  rRC,
  unknown,
  ...
}

TxDiversityIndicator         ::= ENUMERATED {

```

```

    true,
    false
}

-- U

UARFCN ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105

UL-DL-CompressedModeSelection ::= ENUMERATED {
  ul-only,
  dl-only,
  both-ul-and-dl
}

UL-DL-mode ::= ENUMERATED {
  ul-only,
  dl-only,
  both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
  puncturing,
  sFdiv2,
  higher-layer-scheduling,
  none
}

UL-DeltaSIR ::= INTEGER (-60..100)
-- The UL Delta SIR gives the UL Delta SIR in number of 0.1 dB steps.
-- E.g. Value 100 means 10 dB
-- Unit dB. Step 0.1 dB.

UL-DeltaSIRAfter ::= INTEGER (-60..100)
-- The UL Delat SIR After gives the UL Delta SIR After in number of 0.1 dB steps.
-- E.g. Value 100 means 10 dB
-- Unit dB. Step 0.1 dB.

UL-SIR ::= INTEGER (-82..173)
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.

UC-ID ::= SEQUENCE {
    rNC-ID          RNC-ID,
    c-ID           C-ID,
    iE-Extensions  ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    ...
}

UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```

}
...
}
UL-DPCCH-SlotFormat ::= INTEGER (0..5)
UL-FP-Mode ::= ENUMERATED {
    normal,
    silent
}
UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.
UL-ScramblingCode ::= SEQUENCE {
    ul-ScramblingCodeNumber      UL-ScramblingCodeNumber,
    ul-ScramblingCodeLength      UL-ScramblingCodeLength,
    iE-Extensions                ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
}
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)
URA-ID ::= INTEGER (0..65535)
-- V
-- W
-- X
-- Y
-- Z
END

```

9.3.5 Common Definitions

```

-- *****
--
-- Common definitions
--
-- *****

```



```

RNSAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

Presence        ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID    ::= CHOICE {
    local          INTEGER (0..65535),
    global         OBJECT IDENTIFIER
}

ProcedureCode   ::= INTEGER (0..255)

ProcedureID ::= SEQUENCE {
    procedureCode  ProcedureCode,
    ddMode        ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID   ::= INTEGER (0..65535)

TransactionID   ::= INTEGER (0..65535)

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }

END

```

9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

RNSAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0

```

```

id-commonTransportChannelResourcesInitiationTDD      INTEGER ::= 1
id-commonTransportChannelResourcesRelease           INTEGER ::= 2
id-compressedModeCancellationFDD                   INTEGER ::= 3
id-compressedModeCommitFDD                       INTEGER ::= 4
id-compressedModePrepareFDD                      INTEGER ::= 5
id-compressedModeCommandFDD                     INTEGER ::= x
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-uplinkSignallingTransfer                         INTEGER ::= 26

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```

```

-- *****
--
-- Lists
--
-- *****

```

```

maxRateMatching        INTEGER ::= 10
maxNrOfTFCs            INTEGER ::= 10
maxNrOfTFs             INTEGER ::= 10
maxNrOfCCTrCHs        INTEGER ::= 10
maxNrOfDCHs           INTEGER ::= 10
maxNrOfDL-Codes       INTEGER ::= 10
maxNrOfDPCHs          INTEGER ::= 10
maxNrOfErrors         INTEGER ::= 10
maxNrOfMACcSDU-Length INTEGER ::= 10

```

```

maxNrOfRLs                INTEGER ::= 10
maxNrOfRLSets             INTEGER ::= 10
maxNrOfRLs-1              INTEGER ::= 10
maxNrOfRLs-2              INTEGER ::= 10
maxNrOfSCCPCHs            INTEGER ::= 10
maxNrOfULTs                INTEGER ::= 15
maxNrOfCMpatterns         INTEGER ::= 8
maxRNCinURA               INTEGER ::= 10
maxTTI-Count               INTEGER ::= 10
maxCTFC-1                  INTEGER ::= 10
maxNrOfNeighbouringRNCs   INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC INTEGER ::= 10
maxNrOfTDDNeighboursPerRNC INTEGER ::= 10
maxFACHCountPlus1         INTEGER ::= 10
maxIBSEG                   INTEGER ::= 16
maxTGPS                   INTEGER ::= 6

```

```

-- *****
--
-- IEs
--
-- *****

```

```

id-Active-Pattern-Sequence-Information      INTEGER ::= x
id-AllRLItem-DM-Rprt                INTEGER ::= 0
id-AllRLItem-DM-Rsp                  INTEGER ::= 1
id-AllRL-SetItem-DM-Rprt              INTEGER ::= 2
id-AllRL-SetItem-DM-Rsp              INTEGER ::= 3
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-CellItem-PagingRqst                INTEGER ::= 12
id-CM-PatternInformationItem-CompressedModePrep  INTEGER ::= 13
id-CM-PatternInformationList-CompressedModePrep  INTEGER ::= 14
id-CombiningItem-RL-AdditionFailureFDD INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD    INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD    INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD   INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD       INTEGER ::= 19
id-CriticalityDiagnostics              INTEGER ::= 20
id-D-RNTI                             INTEGER ::= 21
id-D-RNTI-ReleaseIndication           INTEGER ::= 22
id-DCH-AddListIE-RL-ReconfReadyFDD    INTEGER ::= 23
id-DCH-AddListIE-RL-ReconfReadyTDD    INTEGER ::= 24
id-DCH-AddListIE-RL-ReconfRsp         INTEGER ::= 25

```

id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD	INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 35
id-DCH-ModifyListIE-RL-ReconfReadyFDD	INTEGER ::= 36
id-DCH-ModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 37
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 38
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 43
id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD	INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 45
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 50
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 51
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD	INTEGER ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD	INTEGER ::= 55
id-DL-CodeInformationListIE-RL-AdditionRspFDD	INTEGER ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD	INTEGER ::= 57
<u>id-DL-CodeInformationListIE-RL-ReconfResp</u>	<u>INTEGER ::= xx</u>
id-DL-CodeInformationListIE-RL-SetupFailureFDD	INTEGER ::= 58
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 64
id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 65
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 69
id-DRXCycleLengthCoefficient	INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 73
id-DedicatedMeasurementType	INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 77

id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 79
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 80
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 81
id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD	INTEGER ::= 82
id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD	INTEGER ::= 83
id-IMSI	INTEGER ::= 84
id-L3-Information	INTEGER ::= 85
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 86
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 87
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 88
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 89
id-MaxAdjustmentPeriod	INTEGER ::= 90
id-MaxAdjustmentStep	INTEGER ::= 91
id-MeasurementFilterCoefficient	INTEGER ::= 92
id-MeasurementID	INTEGER ::= 93
id-MultipleURAsIndicator	INTEGER ::= 94
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= 99
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD	INTEGER ::= 101
id-PagingArea-PagingRqst	INTEGER ::= 102
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD	INTEGER ::= 103
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD	INTEGER ::= 104
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 105
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 106
id-PowerAdjustmentType	INTEGER ::= 107
id-ProcedureScope-DL-PC-Rqst	INTEGER ::= 108
id-RANAP-RelocationInformation	INTEGER ::= 109
id-RL-Information-PhyChReconfRqstFDD	INTEGER ::= 110
id-RL-Information-PhyChReconfRqstTDD	INTEGER ::= 111
id-RL-Information-RL-AdditionRqstFDD	INTEGER ::= 112
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 113
id-RL-Information-RL-DeletionRqst	INTEGER ::= 114
id-RL-Information-RL-FailureInd	INTEGER ::= 115
id-RL-Information-RL-ReconfPrepFDD	INTEGER ::= 116
id-RL-Information-RL-RestoreInd	INTEGER ::= 117
id-RL-Information-RL-SetupRqstFDD	INTEGER ::= 118
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 119
id-RL-InformationItem-DM-Rprt	INTEGER ::= 120
id-RL-InformationItem-DM-Rqst	INTEGER ::= 121
id-RL-InformationItem-DM-Rsp	INTEGER ::= 122
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 123
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 124
id-RL-InformationList-RL-DeletionRqst	INTEGER ::= 125
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD	INTEGER ::= 128
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 130

id-RL-InformationResponseItem-RL-ReconfReadyFDD	INTEGER ::= 131
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD	INTEGER ::= 135
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 136
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 137
id-RLItem-DM-Rprt	INTEGER ::= 138
id-RLItem-DM-Rqst	INTEGER ::= 139
id-RLItem-DM-Rsp	INTEGER ::= 140
id-RL-ReconfigurationFailure-RL-ReconfFail	INTEGER ::= 141
id-RL-ReconfigurationFailureList-RL-ReconfFail	INTEGER ::= 142
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst	INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd	INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd	INTEGER ::= 147
id-RL-SetItem-DM-Rprt	INTEGER ::= 148
id-RL-SetItem-DM-Rqst	INTEGER ::= 149
id-RL-SetItem-DM-Rsp	INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind	INTEGER ::= 151
id-ReportCharacteristics	INTEGER ::= 152
id-Reporting-Object-RL-FailureInd	INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 154
id-S-RNTI	INTEGER ::= 155
id-SAI	INTEGER ::= 156
id-SRNC-ID	INTEGER ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD	INTEGER ::= 158
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 162
id-TransportBearerID	INTEGER ::= 163
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= xxx
id-TransportBearerRequestIndicator	INTEGER ::= 164
id-TransportLayerAddress	INTEGER ::= 165
id-UC-ID	INTEGER ::= 166
id-UL-CCTrCH-Information-RL-ReconfPrepTDD	INTEGER ::= 167
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 168
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 169
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 182

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id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD
id-UL-SIRTarget
id-URA-ID
id-URAItem-PagingRqst
id-UnsuccessfulRL-InformationResponse
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD

END

203

INTEGER ::= 183
INTEGER ::= 184
INTEGER ::= 185
INTEGER ::= 186
INTEGER ::= 187
INTEGER ::= 188
INTEGER ::= 189
INTEGER ::= 190
INTEGER ::= 191
INTEGER ::= 192

**3GPP TSG-RAN WG3 Meeting #13
Oahu, USA, 22-26 May 2000**

Document R3-001656

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 141

Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#8**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: **R-WG3** **Date:** **June 20, 2000**

Subject: **RNSAP ASN.1 merge files**

Work item:

Category:	F Correction	<input checked="" type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
<small>(only one category shall be marked with an X)</small>	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
				Release 00	<input type="checkbox"/>

Reason for change: **ASN.1 merge of all WG3 agreed CRs.**

Clauses affected:

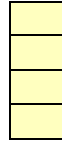
Other specs affected: Other 3G core specifications → List of CRs:
Other GSM core → List of CRs:

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2

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specifications
MS test specifications
BSS test specifications
O&M specifications



→ List of CRs:
→ List of CRs:
→ List of CRs:



**Other
comments:**



help.doc



<----- double-click here for help and instructions on how to create a CR.

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```
--9.3.2 Elementary Procedure Definitions
-- *****
--
-- Elementary Procedure definitions
--
-- *****

RNSAP-PDU-Descriptions -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    ProcedureID,
    TransactionID
FROM RNSAP-CommonDataTypes

    CommonTransportChannelResourcesFailure,
    CommonTransportChannelResourcesRequest,
    CommonTransportChannelResourcesReleaseRequest,
    CommonTransportChannelResourcesResponseFDD,
    CommonTransportChannelResourcesResponseTDD,
-- R3-001608, CR126r2
-- CompressedModeCancel,
-- CompressedModeCommit,
-- CompressedModeFailure,
-- CompressedModePrepare,
-- CompressedModeReady,
-- CompressedModeCommand,
    DedicatedMeasurementFailureIndication,
    DedicatedMeasurementInitiationFailure,
    DedicatedMeasurementInitiationRequest,
    DedicatedMeasurementInitiationResponse,
    DedicatedMeasurementReport,
    DedicatedMeasurementTerminationRequest,
    DL-PowerControlRequest,
    DownlinkSignallingTransferRequest,
    ErrorIndication,
    PagingRequest,
    PhysicalChannelReconfigurationCommand,
    PhysicalChannelReconfigurationFailure,
    PhysicalChannelReconfigurationRequestFDD,
    PhysicalChannelReconfigurationRequestTDD,
    PrivateMessage,
    RadioLinkAdditionFailureFDD,
    RadioLinkAdditionFailureTDD,
```

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```
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,  
UplinkSignallingTransferIndication  
FROM RNSAP-PDU-Contents  
  
id-commonTransportChannelResourcesInitiationFDD,  
id-commonTransportChannelResourcesInitiationTDD,  
id-commonTransportChannelResourcesRelease,  
  
-- R3-001608,CR126r2  
id-compressedModeCancellationFDD,  
id-compressedModeCommitFDD,  
id-compressedModePrepareFDD,  
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,
```

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```
id-synchronisedRadioLinkReconfigurationCommit,
id-synchronisedRadioLinkReconfigurationPrepare,
id-unsynchronisedRadioLinkReconfiguration,
id-uplinkSignallingTransfer
FROM RNSAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

RNSAP-ELEMENTARY-PROCEDURE ::= CLASS {
    &InitiatingMessage      ,
    &SuccessfulOutcome      OPTIONAL,
    &UnsuccessfulOutcome    OPTIONAL,
    &Outcome                 OPTIONAL,
    &procedureID            ProcedureID    UNIQUE,
    &criticality            Criticality    DEFAULT ignore
}
WITH SYNTAX {
    INITIATING MESSAGE      &InitiatingMessage
    [SUCCESSFUL OUTCOME    &SuccessfulOutcome]
    [UNSUCCESSFUL OUTCOME  &UnsuccessfulOutcome]
    [OUTCOME                &Outcome]
    PROCEDURE ID           &procedureID
    [CRITICALITY           &criticality]
}

-- *****
--
-- Interface PDU Definition
--
-- *****

RNSAP-PDU ::= CHOICE {
    initiatingMessage      InitiatingMessage,
    succesfulOutcome       SuccessfulOutcome,
    unsuccessfullOutcome   UnsuccessfulOutcome,
    outcome                Outcome,
    ...
}

InitiatingMessage ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
    transactionID TransactionID,
    value       RNSAP-ELEMENTARY-PROCEDURE.&InitiatingMessage ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} )
}

SuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ( {RNSAP-ELEMENTARY-PROCEDURES} ),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ( {RNSAP-ELEMENTARY-PROCEDURES} {@procedureID} ),
}
```

```

    transactionID TransactionID,
    value          RNSAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome  ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

UnsuccessfulOutcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
    value          RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome  ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

Outcome ::= SEQUENCE {
    procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID      ({RNSAP-ELEMENTARY-PROCEDURES}),
    criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality      ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
    transactionID TransactionID,
    value          RNSAP-ELEMENTARY-PROCEDURE.&Outcome        ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

-- *****
--
-- Interface Elementary Procedure List
--
-- *****

RNSAP-ELEMENTARY-PROCEDURES RNSAP-ELEMENTARY-PROCEDURE ::= {
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-1      |
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-2      |
    RNSAP-ELEMENTARY-PROCEDURES-CLASS-3      |
    ...                                       ,
}

RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= {
    radioLinkSetupFDD                       |
    radioLinkSetupTDD                       |
    radioLinkAdditionFDD                    |
    radioLinkAdditionTDD                    |
    radioLinkDeletion                       |
    synchronisedRadioLinkReconfigurationPreparationFDD |
    synchronisedRadioLinkReconfigurationPreparationTDD |
    unSynchronisedRadioLinkReconfigurationFDD |
    unSynchronisedRadioLinkReconfigurationTDD |
    physicalChannelReconfigurationFDD       |
    physicalChannelReconfigurationTDD       |
    measurementInitiation                   |
-- R3-001608, CR126r2
-- compressedModePreparationFDD      |
    commonTransportChannelResourcesInitiationFDD |
    commonTransportChannelResourcesInitiationTDD |
    ...                                       ,
}

RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= {
    uplinkSignallingTransfer                 |

```

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```
downlinkSignallingTransfer
srnsRelocationCommit
paging
synchronisedRadioLinkReconfigurationCommit
synchronisedRadioLinkReconfigurationCancellation
radioLinkFailure
radioLinkRestoration
measurementReporting
measurementTermination
measurementFailure
downlinkPowerControlFDD
-- R3-001608,CR126r2
compressedModeCommandFDD
compressedModeCommitFDD
compressedModeCancellationFDD
commonTransportChannelResourcesRelease
errorIndication
privateMessage
...
}

RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
    ...
}

-- *****
--
-- Interface Elementary Procedures
--
-- *****

radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkSetupRequestFDD
    SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
    UNSUCCESSFUL OUTCOME RadioLinkSetupFailureFDD
    PROCEDURE ID { procedureCode id-radioLinkSetup, ddMode fdd }
    CRITICALITY reject
}

radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkSetupRequestTDD
    SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
    UNSUCCESSFUL OUTCOME RadioLinkSetupFailureTDD
    PROCEDURE ID { procedureCode id-radioLinkSetup, ddMode tdd }
    CRITICALITY reject
}

radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkAdditionRequestFDD
    SUCCESSFUL OUTCOME RadioLinkAdditionResponseFDD
    UNSUCCESSFUL OUTCOME RadioLinkAdditionFailureFDD
    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
    PROCEDURE ID        { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY         reject
}

synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationPrepareFDD
    SUCCESSFUL OUTCOME  RadioLinkReconfigurationReadyFDD
    UNSUCCESSFUL OUTCOME RadioLinkReconfigurationFailure
    PROCEDURE ID        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode fdd }
    CRITICALITY         reject
}

synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationPrepareTDD
    SUCCESSFUL OUTCOME  RadioLinkReconfigurationReadyTDD
    UNSUCCESSFUL OUTCOME RadioLinkReconfigurationFailure
    PROCEDURE ID        { procedureCode id-synchronisedRadioLinkReconfigurationPrepare, ddMode tdd }
    CRITICALITY         reject
}

unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE  RadioLinkReconfigurationRequestFDD
    SUCCESSFUL OUTCOME  RadioLinkReconfigurationResponse
    UNSUCCESSFUL OUTCOME RadioLinkReconfigurationFailure
    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
}

```

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```
PROCEDURE ID      { procedureCode id-physicalChannelReconfiguration, ddMode fdd }
CRITICALITY      reject
}

physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE PhysicalChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME  PhysicalChannelReconfigurationCommand
  UNSUCCESSFUL OUTCOME PhysicalChannelReconfigurationFailure
  PROCEDURE ID      { procedureCode id-physicalChannelReconfiguration, ddMode tdd }
  CRITICALITY      reject
}

measurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DedicatedMeasurementInitiationRequest
  SUCCESSFUL OUTCOME  DedicatedMeasurementInitiationResponse
  UNSUCCESSFUL OUTCOME DedicatedMeasurementInitiationFailure
  PROCEDURE ID      { procedureCode id-measurementInitiation, ddMode common }
  CRITICALITY      reject
}

-- R3-001608,CR126r2
compressedModePreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModePrepare
  SUCCESSFUL OUTCOME CompressedModeReady
  UNSUCCESSFUL OUTCOME CompressedModeFailure
  PROCEDURE ID      { procedureCode id-compressedModePrepareFDD, ddMode fdd }
  CRITICALITY      reject
}

commonTransportChannelResourcesInitiationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelResourcesRequest
  SUCCESSFUL OUTCOME  CommonTransportChannelResourcesResponseFDD
  UNSUCCESSFUL OUTCOME CommonTransportChannelResourcesFailure
  PROCEDURE ID      { procedureCode id-commonTransportChannelResourcesInitiationFDD, ddMode common }
  CRITICALITY      reject
}

commonTransportChannelResourcesInitiationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelResourcesRequest
  SUCCESSFUL OUTCOME  CommonTransportChannelResourcesResponseTDD
  UNSUCCESSFUL OUTCOME CommonTransportChannelResourcesFailure
  PROCEDURE ID      { procedureCode id-commonTransportChannelResourcesInitiationTDD, ddMode common }
  CRITICALITY      reject
}

uplinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE UplinkSignallingTransferIndication
  PROCEDURE ID      { procedureCode id-uplinkSignallingTransfer, ddMode common }
  CRITICALITY      ignore
}

downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DownlinkSignallingTransferRequest
```


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```
PROCEDURE ID      { procedureCode id-downlinkSignallingTransfer, ddMode common }
CRITICALITY      ignore
}

srnsRelocationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RelocationCommit
  PROCEDURE ID      { procedureCode id-srnsRelocationCommit, ddMode common }
  CRITICALITY      ignore
}

paging RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE PagingRequest
  PROCEDURE ID      { procedureCode id-pagingRequest, ddMode common }
  CRITICALITY      ignore
}

synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkReconfigurationCommit
  PROCEDURE ID      { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
  CRITICALITY      ignore
}

synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkReconfigurationCancel
  PROCEDURE ID      { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
  CRITICALITY      ignore
}

radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkFailureIndication
  PROCEDURE ID      { procedureCode id-radioLinkFailure, ddMode common }
  CRITICALITY      ignore
}

radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkRestoreIndication
  PROCEDURE ID      { procedureCode id-radioLinkRestoration, ddMode common }
  CRITICALITY      ignore
}

measurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DedicatedMeasurementReport
  PROCEDURE ID      { procedureCode id-measurementReporting, ddMode common }
  CRITICALITY      ignore
}

measurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DedicatedMeasurementTerminationRequest
  PROCEDURE ID      { procedureCode id-measurementTermination, ddMode common }
  CRITICALITY      ignore
}

measurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
```

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```
INITIATING MESSAGE DedicatedMeasurementFailureIndication
PROCEDURE ID { procedureCode id-measurementFailure, ddMode common }
CRITICALITY ignore
}

downlinkPowerControlFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DL-PowerControlRequest
  PROCEDURE ID { procedureCode id-downlinkPowerControl, ddMode fdd }
  CRITICALITY ignore
}

-- R3-001608,CR126r2
compressedModeCommandFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModeCommand
  PROCEDURE ID { procedureCode id-compressedModeCommandFDD, ddMode fdd }
  CRITICALITY ignore
}

compressedModeCancellationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CompressedModeCancel
  PROCEDURE ID { procedureCode id-compressedModeCancellationFDD, 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
  PROCEDURE ID { procedureCode id-errorIndication, ddMode common }
  CRITICALITY ignore
}

privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE PrivateMessage
  PROCEDURE ID { procedureCode id-privateMessage, ddMode common }
  CRITICALITY ignore
}

END

--9.3.3 PDU Definitions
-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
```

```

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
-- R3-001608,CR126r2
Active-Pattern-Sequence-Information,
AllocationRetentionPriority,
AllowedQueuingTime,
BLER,
-- R3-001362,CR105
Block-STTD-Indicator,
BindingID,
BurstType,
C-ID,
C-RNTI,
CCTrCH-ID,
CellIndividualOffset,
CFN,
-- R3-001608,CR126r2
CFNOffset,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
-- R3-001593,CR89r5
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
Cause,
CellParameterID,
ChipOffset,
-- R3-001608,CR126r2
CompressedModeMethod,
CriticalityDiagnostics,
D-FieldLength,
D-RNTI,
D-RNTI-ReleaseIndication,
-- R3-001616,CR113r2
DCH-CombinationInd,
DCH-ID,
DL-DPCH-SlotFormat,
DL-SIRTarget,
-- R3-001608,CR126r2
DL-FrameType,
DL-Power,
DL-ScramblingCode,
DPCHConstantValue,
DPCH-ID,
DRACControl,

```

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```
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DiversityControlField,  
DiversityMode,  
-- R3-001592,CR74r6  
DSCH-ID,  
FACH-InitialWindowSize,  
-- R3-001592,CR74r6  
FACH-PriorityIndicator,  
SchedulingPriorityIndicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
-- R3-001314,CR110  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
-- R3-001608,CR126r2  
GapPeriod,  
GapPositionMode,  
-- R3-001615,CR133r2  
GA-AccessPointPosition,  
GA-Cell,  
IB-SG-POS,  
IB-SG-REP,  
IMSI,  
-- R3-001570,CR90r3  
ISCP,  
L3-Information,  
LimitedPowerIncrease,  
-- R3-001592,CR74r6  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrOfUL-DPCHs,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinUL-ChannelisationCodeLength,  
MultipleURAsIndicator,  
MultiplexingPosition,  
-- R3-001470,CR84r3  
NrOfDLchannelisationcodes,  
-- R3-001608,CR126r2  
PD,  
-- R3-001592,CR74r6  
PDSCHCodeMapping,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PowerAdjustmentType,  
-- R3-001608,CR126r2  
PowerControlMode,  
PowerOffset,
```

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```
-- R3-001608,CR126r2
PowerResumeMode,
-- R3-001574,CR117r2
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
-- R3-001574,CR117r2
RACH-SubChannelNumbers,
RANAP-RelocationInformation,
-- R3-001592,CR74r6
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
-- R3-001612,CR108r2
SealedMaxAdjustmentPeriod,
ScaledAdjustmentRatio,
SealedMaxAdjustmentStep,
-- R3-001608,CR126r2
ScramblingCodeChange,
-- R3-001574,CR117r2
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
-- R3-001608,CR126r2
TGD,
```

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```
TGL,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
-- R3-001608,CR126r2
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
-- R3-001592,CR74r6
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
-- R3-001608,CR126r2
UL-DeltaSIR,
UL-DeltaSIRAfter,
UL-DL-CompressedModeSelection,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID,
-- R3-001592,CR74r6
USCH-ID
FROM RNSAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
RNSAP-PRIVATE-IES,
RNSAP-PROTOCOL-EXTENSION,
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

-- R3-001592,CR74r6
maxNoOfDSCHs,
maxNoOfRB,
maxNoOfUSCHs,
maxNrOfCCTrCHs,
maxNrOfDCHs,
maxNrOfDL-Codes,
```

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```
maxNrOfDPCHs,  
-- R3-001592,CR74r6  
maxNrOfMACCshSDU-Length,  
maxNrOfRLs,  
maxNrOfRLSets,  
maxNrOfRLs-1,  
maxNrOfRLs-2,  
maxNrOfSCCPCHs,  
maxNrOfULTs,  
-- R3-001570,CR90r3  
maxNrOfDLTs,  
-- R3-001608,CR126r2  
maxNrOfCMpatterns,  
-- R3-001617,CR106r2  
maxRNCinURA-1,  
maxNrOfNeighbouringRNCs,  
maxNrOfFDDNeighboursPerRNC,  
maxNrOfTDDNeighboursPerRNC,  
maxFACHCountPlus1,  
maxIBSEG,  
  
-- R3-001608,CR126r2  
id-Active-Pattern-Sequence-Information,  
-- R3-001612,CR108r2  
id-AdjustmentRatio,  
-- R3-001541,CR116r1  
id-All-RLItem-DM-Rqst,  
id-All-RLItem-Set-DM-Rqst,  
id-AllRLItem-DM-Rprt,  
id-AllRLItem-DM-Rsp,  
id-AllRL-SetItem-DM-Rprt,  
id-AllRL-SetItem-DM-Rsp,  
id-AllowedQueuingTime,  
id-BindingID,  
id-C-ID,  
id-C-RNTI,  
id-CFN,  
id-CN-CS-DomainIdentifier,  
id-CN-PS-DomainIdentifier,  
id-Cause,  
  
-- R3-001451,CR135  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CellItem-PagingRqst,  
  
-- R3-001608,CR126r2  
id-CM-PatternInformationItem-CompressedModePrep,  
id-CM-PatternInformationList-CompressedModePrep,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,
```

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```
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CriticalityDiagnostics,  
id-D-RNTI,  
id-D-RNTI-ReleaseIndication,  
  
-- R3-001205,CR79r1  
id-DCH-AddListIE-RL-ReconfReadyFDD,  
id-DCH-AddListIE-RL-ReconfReadyTDD,  
id-DCH-AddListIE-RL-ReconfRsp,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-Information-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
  
-- R3-001205,CR79r1  
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,  
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,  
id-DCH-InformationResponseListIE-RL-ReconfRsp,  
id-DCH-ModifyListIE-RL-ReconfReadyFDD,  
id-DCH-ModifyListIE-RL-ReconfReadyTDD,  
id-DCH-ModifyListIE-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,  
  
-- R3-001351,CR87r1  
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,  
  
-- R3-001351,CR87r1  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,  
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,  
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,  
  
-- R3-001351,CR87r1  
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,
```


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```
id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
-- R3-001608,CR126r2
  id-DL-CodeInformationListIE-RL-ReconfResp,
  id-DL-CodeInformationListIE-RL-SetupFailureFDD,
  id-DL-DPCH-Information-RL-ReconfPrepFDD,
  id-DL-DPCH-Information-RL-SetupRqstFDD,
  id-DL-DPCH-Information-RL-ReconfRqstFDD,
  id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
  id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
  id-DL-DPCH-InformationItem-RL-SetupRspTDD,
-- R3-001351,CR87r1
  id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
  id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
  id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
  id-DL-SIRTarget,
  id-DLReferencePower,
  id-DLReferencePowerList-DL-PC-Rqst,
  id-DL-ReferencePowerInformation-DL-PC-Rqst,
  id-DRXCycleLengthCoefficient,
  id-DedicatedMeasurementObjectType-DM-Rprt,
  id-DedicatedMeasurementObjectType-DM-Rqst,
  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,
-- R3-001592,CR74r6
  id-DSCH-AddList-RL-ReconfPrepTDD,
  id-DSCH-Add-RL-ReconfPrepFDD,
  id-DSCH-DeleteList-RL-ReconfPrepTDD,
  id-DSCH-Delete-RL-ReconfPrepFDD,
  id-DSCH-InformationItem-RL-SetupRqstFDD,
  id-DSCH-InformationListIE-RL-AdditionRspTDD,
  id-DSCH-InformationListIEs-RL-SetupRspTDD,
  id-DSCH-InformationList-RL-SetupRqstTDD,
  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,
-- R3-001296,CR118
  id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD,
  id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD,
  id-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD,
  id-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD,
-- R3-001615,CR133r2
  id-GA-AccessPointPosition,
  id-GA-Cell,
```

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```
-- R3-001451,CR135
  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,
-- R3-001592,CR74r6
  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,
-- R3-001612,CR108r2
  id-MaxAdjustmentPeriod,
  id-MaxAdjustmentStep,
-- R3-001639,CR128r2
  id-MeasurementAvailableItem-DedicatedMeasurementReport,
  id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
  id-MeasurementFilterCoefficient,
  id-MeasurementID,
  id-MultipleURAsIndicator,
-- R3-001541,CR116r1
  id-NeighbouringFDD-CellInformationItem-RL-AdditionFailureFDD,
  id-NeighbouringFDD-CellInformationItem-RL-AdditionRsp,
  id-NeighbouringFDD-CellInformationItem-RL-SetupFailureFDD,
  id-NeighbouringFDD-CellInformationItem-RL-SetupRsp,
  id-NeighbouringTDD-CellInformationItem-RL-AdditionFailureFDD,
  id-NeighbouringTDD-CellInformationItem-RL-AdditionRsp,
  id-NeighbouringTDD-CellInformationItem-RL-SetupFailureFDD,
  id-NeighbouringTDD-CellInformationItem-RL-SetupRsp,
  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,
-- R3-001385,CR137
  id-NonCombiningOrFirstRLIEnotPresentItem-RL-SetupFailureFDD,
  id-NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD,
  id-PagingArea-PagingRqst,
  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,
-- R3-001574,CR117r2
  id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD,
  id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD,
  id-RANAP-RelocationInformation,
  id-RL-Information-PhyChReconfRqstFDD,
```

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```
id-RL-Information-PhyChReconfRqstTDD,  
id-RL-Information-RL-AdditionRqstFDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-DeletionRqst,  
id-RL-Information-RL-FailureInd,  
id-RL-Information-RL-ReconfPrepFDD,  
id-RL-Information-RL-RestoreInd,  
id-RL-Information-RL-SetupRqstFDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
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,  
  
-- R3-001321,CR98  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailure-RL-ReconfFail,  
  
-- R3-001451,CR135  
id-RL-ReconfigurationFailureList-RL-ReconfFail,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rqst,  
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,  
  
-- R3-001321,CR98  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
  
-- R3-001451,CR135  
id-RLSpecificCauseItem-RL-AdditionFailureFDD,  
id-RLSpecificCauseItem-RL-AdditionFailureTDD,  
id-RLSpecificCauseItem-RL-ReconfFailure,  
id-RLSpecificCauseItem-RL-SetupFailureFDD,  
id-RLSpecificCauseItem-RL-SetupFailureTDD,
```

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```
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
-- R3-001617,CR106r2
  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-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,
-- R3-001608,CR126r2
  id-Transmission-Gap-Pattern-Sequence-Information,
-- R3-001351,CR87r1
  id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,
  id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,
  id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,
  id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
  id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
  id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
  id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
  id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
  id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
  id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
  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-ReconfRqstFDD,
  id-UL-DPCH-Information-RL-SetupRqstFDD,
  id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
  id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
  id-UL-DPCH-InformationItem-RL-SetupRspTDD,
-- R3-001351,CR87r1
  id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
  id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
  id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
  id-UL-SIRTarget,
  id-URA-ID,
  id-URAItem-PagingRqst,
-- R3-001451,CR135
```

```

id-UnsuccessfulRL-InformationResponse,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
-- R3-001451,CR135
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,
-- R3-001592,CR74r6
id-USCH-AddList-RL-ReconfPrepTDD,
id-USCH-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationListIE-RL-AdditionRspTDD,
id-USCH-InformationListIEs-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyList-RL-ReconfPrepTDD,
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
FROM RNSAP-Constants;

-- *****
--
-- Common Container List
--
-- *****

DPCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IEsSetParam } }
RL-IE-ContainerList0      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { 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 { 0, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-2    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IEsSetParam } }
RL-Set-IE-ContainerList   { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IEsSetParam } }
CCTrCH-IE-ContainerList0  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IEsSetParam } }
CCTrCH-IE-ContainerList1  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IEsSetParam } }
-- R3-001592,CR74r6
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 ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL,
    ...
}

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY reject TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject TYPE D-RNTI          PRESENCE optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |

```

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```
{ ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
{ ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
{ ID id-DCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
-- R3-001592,CR74r6
{ ID id-DSCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DSCH-Information-RL-SetupRqstFDD PRESENCE optional } |
{ ID id-RL-Information-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
-- R3-001608,CR126r1
{ 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-TFCS                    TFCS,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat,
    ul-SIRTarget               UL-SIR          OPTIONAL,
    diversityMode              DiversityMode,
    d-FieldLength              D-FieldLength          OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    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-SetupRqstFDD ::= SEQUENCE {
    tFCS                        TFCS,
    dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
-- R3-001470,CR84r3
    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 {
        po1-ForTFCI-Bits         PowerOffset,
        po2-ForTPC-Bits          PowerOffset,
        po3-ForPilotBits         PowerOffset,
        ...
    },
    fdd-dl-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
-- R3-001257,CR78r2
    limitedPowerIncrease         LimitedPowerIncrease,

```

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```
iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
-- R3-001616,CR113r2
payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
ul-FP-Mode                        UL-FP-Mode,
toAWS                             ToAWS,
toAWE                             ToAWE,
dCH-SpecificInformationList       DCH-SpecificInformationList-RL-SetupRqstFDD,
iE-Extensions                    ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001616,CR113r2
DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
dCH-ID                            DCH-ID,
-- R3-001616,CR113r2
dCH-CombinationInd                DCH-CombinationInd OPTIONAL,
-- R3-001257,CR78r2
limitedPowerIncrease               LimitedPowerIncrease,
trCH-SrcStatisticsDescr           TrCH-SrcStatisticsDescr,
ul-transportFormatSet             TransportFormatSet,
dl-transportFormatSet             TransportFormatSet,
ul-BLER                           BLER,
dl-BLER                           BLER,
allocationRetentionPriority        AllocationRetentionPriority,
frameHandlingPriority              FrameHandlingPriority,
-- R3-001616,CR113r2
payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
ul-FP-Mode                        UL-FP-Mode,
qE-Selector                       QE-Selector,
-- R3-001616,CR113r2
toAWS                             ToAWS,
toAWE                             ToAWE,
dRACControl                       DRACControl,
iE-Extensions                    ProtocolExtensionContainer { {DCH-InformationSpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}
}
```

```

DCH-InformationSpecificItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001592,CR74r6
DSCH-Information-RL-SetupRqstFDD ::= 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 TrChSourceStatisticsDescriptorTrCH-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-InformationList-RL-SetupRqstFDD ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD PRESENCE mandatory },
    ...
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    c-ID                      C-ID,
    -- R3-001314,CR110
    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-InitialTX-Power        DL-Power                OPTIONAL,
primaryCPICH-EcNo         PrimaryCPICH-EcNo        OPTIONAL,
sSDT-CellID               SSDT-CellID              OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions             ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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-S-RNTI          CRITICALITY reject TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject TYPE D-RNTI          PRESENCE optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
    -- R3-001592,CR74r6
    { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
    optionalmandatory } |
    { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
    optionalmandatory } |
    { ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstTDD PRESENCE optionalmandatory } |
    -- R3-001592,CR74r6
    { ID id-DSCH-InformationList-RL-SetupRqstTDD CRITICALITY rejectignore TYPE DSCH-InformationList-RL-SetupRqstTDD PRESENCE optional
    } |
    { ID id-USCH-InformationList-RL-SetupRqstTDD CRITICALITY rejectignore TYPE USCH-InformationList-RL-SetupRqstTDD PRESENCE optional
    } |
    { ID id-RL-Information-RL-SetupRqstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD PRESENCE mandatory },
    ...
}

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerList1 { {UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

```

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```
UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD  PRESENCE mandatory  },
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCtRCH-ID          CCTrCH-ID,
  ul-TFCS            TFCS,
  tFCI-Coding        TFCI-Coding,
  ul-PunctureLimit   PunctureLimit,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD          ::= CCTrCH-IE-ContainerList1 { {DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD  PRESENCE mandatory  },
  ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCtRCH-ID          CCTrCH-ID,
  dl-TFCS            TFCS,
  tFCI-Coding        TFCI-Coding,
  dl-PunctureLimit   PunctureLimit,
  tdd-TPC-DownlinkStepSize  TDD-TPC-DownlinkStepSize,
  iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationList-RL-SetupRqstTDD          ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  -- R3-001616,CR113r2
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
  ul-FP-Mode                        UL-FP-Mode,
  toAWS                              ToAWS,
  toAWE                              ToAWE,
  dCH-SpecificInformationList       DCH-SpecificInformationList-RL-SetupRqstTDD,
  iE-Extensions                    ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```

...
}

DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-cCH-ID             CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCH-ID             CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    -- R3-001616,CR113r2
    dCH-CombinationInd DCH-CombinationInd OPTIONAL,
    -- R3-001257,CR78r2
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SourceStatisticsDescriptor TrCH-SourceStatisticsDescriptor,
    ul-transportFormatSet TransportFormatSet,
    dl-transportFormatSet TransportFormatSet,
    ul-BLER               BLER,
    dl-BLER               BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    -- R3-001616,CR113r2
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode UL-FP-Mode,
    -- R3-001564,CR103r2
    qE-Selector           QE-Selector,
    -- R3-001616,CR113r2
    toAWS ToAWS,
    toAWE ToAWE,
    iE-Extensions         ProtocolExtensionContainer { {DCH-InformationSpecificItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationSpecificItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001592,CR74r6
DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD
DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID DSCH-ID,
    dl-ccTrCHID CCTrCH-ID,
    trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCH-SourceStatisticsDescriptor,
    transportFormatSet TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                 BLER,
    iE-Extensions         ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

...
}

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDDUSCH-IE-ContainerList {{USCH-InformationItem-RL-SetupRqstTDD}}

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    ul-CCTrCH-ID           CCTrCH-ID,
    trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCH-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 ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity

RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                C-ID,
    frameOffset         FrameOffset,
    primaryCCPCH-RSCP   PrimaryCCPCH-RSCP    OPTIONAL,
    -- R3-001570,CR90r3
    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 ::= {
    ...
}

-- R3-001570,CR90r3
TimeSlot-ISCPList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPItem-RL-SetupRspTDD

Timeslot-ISCPItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    iSCP                ISCP,
    iE-Extensions       ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
  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 } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
  { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
  { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-SetupRspFDD
    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  rL-Set-ID      RL-Set-ID,
  sAI            SAI,
  -- R3-001615,CR133r2
  gA-Cell          GA-Cell          OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition      OPTIONAL,
  ul-InterferenceLevel      UL-InterferenceLevel,
  secondary-CCPCH-Info      Secondary-CCPCH-Info-RL-SetupRspFDD      OPTIONAL,
  dl-CodeInformation        DL-CodeInformationList-RL-SetupRspFDD,
  diversityIndication       DiversityIndication-RL-SetupRspFDD,
  -- R3-001638,CR163rr1
  -- 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,
  -- R3-001593,CR89r5

```

```

closedloopTimingAdjustmentMode ClosedloopTimingAdjustmentMode OPTIONAL,
maximumAllowedULTxPower MaximumAllowedULTxPower,
-- R3-001592,CR74r6
dSCHInformationResponse DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
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 ::= 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-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 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 SegmentInformationList-RL-SetupRspFDD,
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            ProtocolExtensionContainer { { SegmentInformationItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

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,
    -- R3-001608,CR126r2
    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-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD    CRITICALITY ignore TYPE    DiversityIndicationItem-RL-SetupRspFDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    -- R3-001385,CR137
    nonCombiningOrFirstRLIEnotPresent          NonCombiningOrFirstRLIEnotPresent-RL-SetupRspFDD,
    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,

```

```

}
...
}
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- R3-001385,CR137
NonCombiningOrFirstRLIEnotPresent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIEnotPresentIE-RL-SetupRspFDD }}
NonCombiningOrFirstRLIEnotPresentIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
{ ID id-NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD CRITICALITY ignore TYPE NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD
PRESENCE mandatory },
...
}
NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD ::= SEQUENCE {
dCH-InformationResponse-RL-SetupRspFDD DCH-InformationResponseList-RL-SetupRspFDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD-ExtIEs } }
OPTIONAL,
...
}
NonCombiningOrFirstRLIEnotPresentItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (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 ::= {
...
}
-- R3-001592,CR74r6
DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DSCH-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-InformationResponseItem-RL-SetupRspFDD PRESENCE
mandatory },
...
}
DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
dschInformation DSCHInformation-RL-SetupRspFDD,
pdSCHCodeMapping PDSCHCodeMapping,

```



```

    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCHInformation-RL-SetupRspFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspFDD,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformation-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformation-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,
    iE-Extensions                ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfbMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-SetupRsp }}

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-SetupRsp    CRITICALITY ignore    TYPE    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,
    iE-Extensions            ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

--R3-001126,CR88
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,
    -- R3-001398,CR129
    txDiversityIndicator TxDiversityIndicator OPTIONAL,
    sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

--R3-001126,CR88
Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= 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 -- ,
    -- R3-001362,CR105
    block-STTD-Indicator Block-STTD-Indicator,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue   DPCHConstantValue OPTIONAL,
    pCCPCH-Power        PCCPCH-Power OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

RadioLinkSetupResponseTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkSetupResponseTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
    ...
}

RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI                CRITICALITY ignore TYPE D-RNTI                PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget           CRITICALITY ignore TYPE UL-SIR                PRESENCE mandatory } |
    { ID id-DL-SIRTarget           CRITICALITY ignore TYPE DL-SIRTarget          PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                   SAI,
    -- R3-001615,CR133r2
    gA-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,
    -- R3-001592,CR74r6
    ul-CCTrCHInformation   UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dl-CCTrCHInformation   DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
    -- R3-001592,CR74r6
    dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    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,
    ...
}

```

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```
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 ::= SEQUENCE {
    timeSlot                TimeSlot,
    ul-InterferenceLevel    UL-InterferenceLevel,
    iE-Extensions           ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-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 ::= DPCH-IE-ContainerList { {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 {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
}
```

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```
tFCI-Presence          TFCI-Presence,
iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}

DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD

DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  cCtRCH-ID              CCTrCH-ID,
  dl-DPCH-Information    DL-DPCH-InformationList-RL-SetupRspTDD,
  iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory},
  ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift          MidambleShift,
  timeSlot               TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
```

```

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE DCH-InformationResponseListIE-RL-SetupRspTDD  PRESENCE
  mandatory },
  ...
}

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 ::= {
  ...
}

-- R3-001592,CR74r6
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{DSCH-InformationList-RL-SetupRspTDD}}

DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationListIEs-RL-SetupRspTDD  CRITICALITY ignore  TYPE DSCH-InformationListIEs-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}

DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0+..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  dsch-ID                DSCH-ID,
  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,
  iE-Extensions            ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
}

```

```

    ...
  }
  PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNoOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
  USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{USCH-InformationList-RL-SetupRspTDD}}
  USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
    ...
  }
  USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
  USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID USCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    IE-Extensions ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
  }
  USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  -- *****
  --
  -- RADIO LINK SETUP FAILURE FDD
  --
  -- *****
  RadioLinkSetupFailureFDD ::= SEQUENCE {
    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 } |
    -- R3-001451,CR135
    { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } |

```

```

--- { ID id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponseList-RL-
SetupFailureFDD PRESENCE mandatory }+
--- { ID id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD CRITICALITY ignore TYPE SuccessfulRL-InformationResponseList-RL-
SetupFailureFDD PRESENCE optional }+
{ ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional } |
{ ID id-DL-SIRTarget CRITICALITY ignore TYPE DL-SIRTarget PRESENCE optional } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

-- R3-001451,CR135
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause GeneralCauseList-RL-SetupFailureFDD,
  rLSpecificCause RLSpecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-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 Cause,
  iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE RLSpecificCauseItem-RL-SetupFailureFDD
  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 ::= {
  ...
}

```



```

}
-- R3-001319,CR97
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1-1 { {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 Cause,
  iE-Extensions ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

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-ID,
  rL-Set-ID RL-Set-ID,
  sAI SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  dl-CodeInformation DL-CodeInformationList-RL-SetupFailureFDD,
  diversityIndication DiversityIndication-RL-SetupFailureFDD,
  -- R3-001638,CR163rr1
  -- 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,
  -- R3-001593,CR89r5
  closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  -- R3-001592,CR74r6
  dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-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,
    ie-Extensions ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupFailureFDD }}

DiversityIndicationIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupFailureFDD PRESENCE mandatory
},
    ...
}

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
    combining Combining-RL-SetupFailureFDD,
    -- R3-001385,CR137
    nonCombiningOrFirstRLIEnotPresent NonCombiningOrFirstRLIEnotPresent-RL-SetupFailureFDD,
    ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupFailureFDD CRITICALITY ignore TYPE CombiningItem-RL-SetupFailureFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID RL-ID,
    ie-Extensions ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,

```

```

}
...
}
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- R3-001385,CR137
NonCombiningOrFirstRLIEnotPresen-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIEnotPresenIE-RL-SetupFailureFDD }}
NonCombiningOrFirstRLIEnotPresenIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
{ ID id-NonCombiningOrFirstRLIEnotPresenItem-RL-SetupFailureFDD CRITICALITY ignore TYPE NonCombiningOrFirstRLIEnotPresenItem-RL-
SetupFailureFDD PRESENCE mandatory },
...
}
NonCombiningOrFirstRLIEnotPresenItem-RL-SetupFailureFDD ::= SEQUENCE {
dCH-InformationResponse-RL-SetupFailureFDD DCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { NonCombiningOrFirstRLIEnotPresenItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
...
}
NonCombiningOrFirstRLIEnotPresenItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupFailureFDD
DCH-InformationResponseItem-RL-SetupFailureFDD ::= SEQUENCE {
dCH-ID DCH-ID,
bindingID BindingID,
transportLayerAddress TransportLayerAddress,
iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}
DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- R3-001592,CR74r6
DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-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 (01..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupFailureFDD
DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {

```

```

dsch-ID          DSCH-ID,
bindingID        BindingID,
transportLayerAddress TransportLayerAddress,
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-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 Per-FDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
  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 ::= {
  ...
}

--R3-001126,CR88
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          C-ID,
  uARFCNforNu   UARFCN,
  uARFCNforNd   UARFCN,
  frameOffset   FrameOffset  OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power  OPTIONAL,
  cellIndividualOffset CellIndividualOffset  OPTIONAL,
  -- R3-001398,CR129
  txDiversityIndicator TxDiversityIndicator  OPTIONAL,
  sTTD-SupportIndicator STTD-SupportIndicator  OPTIONAL,
  closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator  OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator  OPTIONAL,
  iE-Extensions    ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

}

Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

--R3-001126,CR88
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 = Case1 -- ,
    sCH-TimeSlot        SCH-TimeSlot         OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    -- R3-001362,CR105
    block-STTD-Indicator      Block-STTD-Indicator,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue   DPCHConstantValue  OPTIONAL,
    pCCPCH-Power        PCCPCH-Power,
    iE-Extensions       ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE TDD
--
-- *****

RadioLinkSetupFailureTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container   {{RadioLinkSetupFailureTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkSetupFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
    -- R3-001451,CR135
    { ID id-CauseLevel-RL-SetupFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD PRESENCE mandatory } |
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD

```

```

----- CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD -----
----- PRESENCE mandatory }+
{ ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE optional },
...
}

-- R3-001451,CR135
CauseLevel-RL-SetupFailureTDD ::= CHOICE {
  generalCause          GeneralCauseList-RL-SetupFailureTDD,
  rLSpecificCause      RLSpecificCauseList-RL-SetupFailureTDD,
  ...
}

GeneralCauseList-RL-SetupFailureTDD ::= ProtocolIE-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                Cause,
  iE-Extensions        ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs } } OPTIONAL,
  ...
}

GeneralCauseItem-RL-SetupFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-SetupFailureTDD ::= ProtocolIE-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-Container { { Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD } }

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD          CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD          PRESENCE mandatory },
  ...
}

```

```

...
]
UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
    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 {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-SIRTarget          CRITICALITY reject  TYPE UL-SIR          PRESENCE mandatory } |
    { ID id-RL-InformationList-RL-AdditionRqstFDD  CRITICALITY notify  TYPE RL-InformationList-RL-AdditionRqstFDD  PRESENCE mandatory } ]-
-- R3-001608,CR126r2
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject  TYPE Active-Pattern-Sequence-Information  PRESENCE optional },
    ...
}

RL-InformationList-RL-AdditionRqstFDD ::= RL-IE-ContainerList1-1 { {RL-Information-RL-AdditionRqstFDD-IEs} }

RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-AdditionRqstFDD  CRITICALITY notify  TYPE RL-Information-RL-AdditionRqstFDD  PRESENCE mandatory },
    ...
}

RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                C-ID,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    diversityControlField DiversityControlField,
    primaryCPICH-EcNo    PrimaryCPICH-EcNo    OPTIONAL,
    sSDT-CellID          SSdT-CellID          OPTIONAL,
}

```

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```
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
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-AdditionRqstTDD ::= SEQUENCE {
    rL-ID RL-ID,
    c-ID C-ID,
    frameOffset FrameOffset,
    diversityControlField DiversityControlField,
    primaryCCPCH-RSCP PrimaryCCPCH-RSCP OPTIONAL,
    -- R3-001570,CR90r3
    timeSlot-ISCPList-RL-AdditionRqstTDD TimeSlot-ISCPList-RL-AdditionRqstTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001570,CR90r3
TimeSlot-ISCPList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPItem-RL-AdditionRspTDD

Timeslot-ISCPItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot TimeSlot,
    iSCP ISCP,
```



```

    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 {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}          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-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
      CRITICALITY ignore   TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    sAI                  SAI,
    -- R3-001615,CR133r2
    gA-Cell              GA-Cell          OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferenceLevel UL-InterferenceLevel,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation   DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication  DiversityIndication-RL-AdditionRspFDD,
    -- R3-001638,CR163rr1
    -- 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,
-- R3-001593,CR89r5
closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
maximumAllowedULTxPower       MaximumAllowedULTxPower,
-- R3-001541,CR116r1
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionSetupRsp OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= 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-AdditionRspFDD,
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 {
transportFormatSet            TransportFormatSet,
iE-Extensions                 ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
...
}

FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
iB-SG-Rep                     IB-SG-REP,
segmentInformationList         SegmentInformationList-RL-AdditionRspFDD,
iE-Extensions                 ProtocolExtensionContainer { { SchedulingInformation-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
...
}

```

```

}

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,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-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,
    -- R3-001608,CR126r2
    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-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-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionRspFDD  CRITICALITY ignore  TYPE CombiningItem-RL-AdditionRspFDD  PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
  ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-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,
  iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001541,CR116r1
Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionRsp }}

```

```

Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-AdditionRsp CRITICALITY ignore TYPE Neighbouring-CellInformationItem-RL-AdditionRsp
  PRESENCE mandatory },
  ...
}

```

```

Neighbouring-CellInformationItem-RL-AdditionRsp ::= 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-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 ::= {
  ...
}

```

--R3-001126,CR88

```

Per-FDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionRsp

```

```

Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNu UARFCN,
  uARFCNforNd UARFCN,
  frameOffset FrameOffset OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  -- R3-001398,CR129
  txDiversityIndicator TxDiversityIndicator OPTIONAL,
  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 ::= {
  ...
}

```

--R3-001126,CR88

```

Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionRsp

```

```

Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNt UARFCN,
  frameOffset FrameOffset OPTIONAL,
  cellParameterID CellParameterID,
  syncCase SyncCase,
}

```

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```
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 -- ,
-- R3-001362,CR105
block-STTD-Indicator   Block-STTD-Indicator,
cellIndividualOffset    CellIndividualOffset    OPTIONAL,
dPCHConstantValue      DPCHConstantValue     OPTIONAL,
pCCPCH-Power           PCCPCH-Power,
iE-Extensions          ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
...
}

Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkAdditionResponseTDD-IEs}},
    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,
    sAI                        SAI,
-- R3-001615,CR133r2
gA-Cell                    GA-Cell                OPTIONAL,
gA-AccessPointPosition    GA-AccessPointPosition OPTIONAL,
ul-InterferencePerTimeslot    UL-InterferenceList-RL-AdditionRspTDD,
-- R3-001592,CR74r6
ul-CCTrCHInformation          UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
dl-CCTrCHInformation          DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
diversityIndication           DiversityIndication-RL-AdditionRspTDD,
-- R3-001638,CR163rr1
-- 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,
-- R3-001592,CR74r6
dSCH-InformationResponse    DSCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
uSCH-InformationResponse    USCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
-- R3-001541,CR116r1
neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-AdditionRspTDD  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,
ul-InterferenceLevel    UL-InterferenceLevel,
iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-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              CCTrCH-ID,
ul-DPCH-Information    UL-DPCH-InformationList-RL-AdditionRspTDD,
iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

```

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```
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 {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift          MidambleShift,
  timeSlot               TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-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,
  iE-Extensions             ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {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
  },
  ...
}
```


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```
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}

DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-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-Container {{CombiningIE-RL-AdditionRspTDD}}

CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore 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 ::= {
    ...
}

NonCombining-RL-AdditionRspTDD ::= ProtocolIE-Container {{NonCombiningIE-RL-AdditionRspTDD}}

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspTDD CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspTDD PRESENCE mandatory },
    ...
}
```

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```
}
NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
-- R3-001319,CR97
    dCH-InformationResponse-RL-AdditionRspTDDFDD          DCH-InformationResponseList-RL-AdditionRspTDDFDD,
    iE-Extensions          ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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 ::= {
    ...
}

-- R3-001592,CR74r6
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-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(01..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID          DSCH-ID,
    priorityIndicator          PriorityIndicator-RL-AdditionRspTDD,
    diversityIndication present, if CHOICE = nonCombining
    diversityIndication          DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    diversityIndication present, if CHOICE = nonCombining
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionSetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-AdditionSetupRspTDD-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..maxNrOfbMACcshSDU-Length)) OF MAC-c-sh-SDU-Length
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
bindingID                        BindingID,
transportLayerAddress           TransportLayerAddress,
iE-Extensions                  ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
...
}
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-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,
-- diversityIndication present, if CHOICE = nonCombining
diversityIndication                DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
-- diversityIndication present, if CHOICE = nonCombining
iE-Extensions                    ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}
USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- R3-001541,CR116r1
Neighbouring-CellInformationList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF Neighbouring-CellInformationItem-RL-AdditionRspTDD
Neighbouring-CellInformationItem-RL-AdditionRspTDD ::= 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-AdditionRspTDD    OPTIONAL,
per-TDD-Cell-InformationList     Per-TDD-Cell-InformationList-RL-AdditionRspTDD    OPTIONAL,

```

```

--- IE-Extensions --- ProtocolExtensionContainer { { Neighbouring-CellInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
---
}

Neighbouring-CellInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
---
}

--R3-001126,CR88
Per-FDD-Cell-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC, ...) ) OF Per-FDD-Cell-InformationItem-RL-
AdditionRspTDD

Per-FDD-Cell-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
--- c-ID --- C-ID,
--- uARFCNforNu --- UARFCN,
--- uARFCNforNd --- UARFCN,
--- frameOffset --- FrameOffset --- OPTIONAL,
--- primaryScramblingCode --- PrimaryScramblingCode,
--- primaryCPICH-Power --- PrimaryCPICH-Power --- OPTIONAL,
--- cellIndividualOffset --- CellIndividualOffset --- OPTIONAL,
--- txDiversityIndicator --- TxDiversityIndicator --- OPTIONAL,
--- sTTD-SupportIndicator --- STTD-SupportIndicator --- OPTIONAL,
--- closedLoopModel-SupportIndicator --- ClosedLoopModel-SupportIndicator --- OPTIONAL,
--- closedLoopMode2-SupportIndicator --- ClosedLoopMode2-SupportIndicator --- OPTIONAL,
--- IE-Extensions --- ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
---
}

Per-FDD-Cell-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
---
}

--R3-001126,CR88
Per-TDD-Cell-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC, ...) ) OF Per-TDD-Cell-InformationItem-RL-
AdditionRspTDD

Per-TDD-Cell-InformationItem-RL-AdditionRspTDD ::= 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 ---,
--- sSCH-TimeSlot --- SCH-TimeSlot --- OPTIONAL
--- -- This IE is present only if Sync-Case = Case2 ---,
--- cellIndividualOffset --- CellIndividualOffset --- OPTIONAL,
--- dPCHConstantValue --- DPCHConstantValue --- OPTIONAL,
--- pCCPCH-Power --- PCCPCH-Power,
--- IE-Extensions --- ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
---
}

```

```

Per-TDD-Cell-InformationItem-RL-AdditionRspTDD-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

RadioLinkAdditionFailureFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkAdditionFailureFDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
-- R3-001451,CR135
{ ID id-CauseLevel-RL-AdditionFailureFDD                CRITICALITY ignore                TYPE CauseLevel-RL-AdditionFailureFDD
  PRESENCE mandatory }|
{ ID id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponseList-RL-
  AdditionFailureFDD PRESENCE mandatory }|
{ ID id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD CRITICALITY ignore TYPE SuccessfulRL-InformationResponseList-RL-
  AdditionFailureFDD PRESENCE optional }|
    { ID id-CriticalityDiagnostics                CRITICALITY ignore TYPE CriticalityDiagnostics                PRESENCE optional },
    ...
}

-- R3-001451,CR135
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
  generalCause          GeneralCauseList-RL-AdditionFailureFDD,
  rLSpecificCause       RLSpecificCauseList-RL-AdditionFailureFDD,
  ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-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          Cause,
  iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
    ...
}

```

```

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore TYPE RLSpecificCauseItem-RL-
AdditionFailureFDD          PRESENCE mandatory},
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-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          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 {

```

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```
rL-ID                RL-ID,
rL-Set-ID            RL-Set-ID,
sAI                 SAI,
ul-InterferenceLevel  UL-InterferenceLevel,
dl-CodeInformation  DL-CodeInformationList-RL-AdditionFailureFDD,
diversityIndication DiversityIndication-RL-AdditionFailureFDD,
-- R3-001638,CR163rr1
-- 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,
-- R3-001593,CR89r5
closedloopTimingAdjustmentMode ClosedloopTimingAdjustmentMode OPTIONAL,
maximumAllowedULTxPower MaximumAllowedULTxPower,
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-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,
  iE-Extensions             ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-AdditionFailureFDD  CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD  PRESENCE
mandatory },
  ...
}
```

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```
DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining                Combining-RL-AdditionFailureFDD,
    nonCombining             NonCombining-RL-AdditionFailureFDD,
    ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-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                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-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 ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionFailureFDD    DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions            ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

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,
    iE-Extensions            ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```



```

-- R3-001541,CR116r1
Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-
CellInformationItemIE-RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE 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,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

--R3-001126,CR88
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,
  -- R3-001398,CR129
  txDiversityIndicator TxDiversityIndicator OPTIONAL,
  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 ::= {
  ...
}

--R3-001126,CR88
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 -- ,
    -- R3-001362,CR105
    block-STTD-Indicator      Block-STTD-Indicator,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue  DPCHConstantValue  OPTIONAL,
    pCCPCH-Power       PCCPCH-Power,
    iE-Extensions      ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION FAILURE TDD
--
-- *****

RadioLinkAdditionFailureTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionFailureTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}}        OPTIONAL,
    ...
}

RadioLinkAdditionFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
    -- R3-001451,CR135
    { ID id-CauseLevel-RL-AdditionFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureTDD PRESENCE mandatory }|
    { ID id-UnsuccessfulRL-InformationResponse CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

-- R3-001451,CR135
CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-AdditionFailureTDD,
    rLSpecificCause       RLSpecificCauseList-RL-AdditionFailureTDD,
    ...
}

```

```

}

GeneralCauseList-RL-AdditionFailureTDD ::= ProtocolIE-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 {
  cause          Cause,
  iE-Extensions  ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs } } OPTIONAL,
  ...
}

GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-AdditionFailureTDD ::= ProtocolIE-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 ::= SEQUENCE {
  unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD  Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
  iE-Extensions        ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs } }
  OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD ::= ProtocolIE-Container { {Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD} }

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD    CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
  AdditionFailureTDD PRESENCE mandatory},
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  cause          Cause,
  iE-Extensions  ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

| UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionFailureTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK DELETION REQUEST
--
-- *****

RadioLinkDeletionRequest ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkDeletionRequest-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}    OPTIONAL,
    ...
}

RadioLinkDeletionRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationList-RL-DeletionRqst  CRITICALITY notify  TYPE RL-InformationList-RL-DeletionRqst    PRESENCE mandatory  },
    ...
}

RL-InformationList-RL-DeletionRqst ::= RL-IE-ContainerList1 { {RL-Information-RL-DeletionRqst-IEs} }

RL-Information-RL-DeletionRqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-DeletionRqst      CRITICALITY notify  TYPE RL-Information-RL-DeletionRqst    PRESENCE mandatory  },
    ...
}

RL-Information-RL-DeletionRqst ::= SEQUENCE {
    rL-ID                        RL-ID,
    iE-Extensions                ProtocolExtensionContainer { {RL-Information-RL-DeletionRqst-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-DeletionRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK DELETION RESPONSE
--
-- *****

RadioLinkDeletionResponse ::= SEQUENCE {

```

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```
    protocolIEs                ProtocolIE-Container    {{RadioLinkDeletionResponse-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}}
    ...
}

RadioLinkDeletionResponse-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

RadioLinkDeletionResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationPrepareFDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
    ...
}

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 } |
    -- R3-001592,CR74r6
    { 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 } |
    { ID id-DSCH-Delete-RL-ReconfPrepFDD          CRITICALITY reject  TYPE DSCH-Delete-RL-ReconfPrepFDD          PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD          CRITICALITY reject  TYPE RL-InformationList-RL-ReconfPrepFDD          PRESENCE optional } |
    -- R3-001608,CR126r2
    { 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-DPDCHs          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit          PunctureLimit          OPTIONAL,
    tFCS          TFCS          OPTIONAL,
    ul-DPCCH-SlotFormat          UL-DPCCH-SlotFormat          OPTIONAL,
```

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```
sSDT-CellIDLength          SSDT-CellID-Length      OPTIONAL,
s-FieldLength              S-FieldLength            OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  tFCS                      TFCS          OPTIONAL,
  dl-DPCH-SlotFormat        DL-DPCH-SlotFormat  OPTIONAL,
  -- R3-001470,CR84r3
  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,
  -- R3-001257,CR78r2
  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 {
  -- R3-001616,CR113r2
  ul-FP-Mode          UL-FP-Mode          OPTIONAL,
  toAWS               ToAWS               OPTIONAL,
  toAWE               ToAWE               OPTIONAL,
  dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
  iE-Extensions      ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dCH-ID              DCH-ID,
  ul-TransportformatSet  TransportFormatSet  OPTIONAL,
  dl-TransportformatSet  TransportFormatSet  OPTIONAL,
  allocationRetentionPriority  AllocationRetentionPriority  OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
```

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```
-- R3-001616,CR113r2
ul-FP-Mode          UL-FP-Mode          OPTIONAL,
toAWS               ToAWS               OPTIONAL,
toAWE               ToAWE               OPTIONAL,
dRACControl        DRACControl          OPTIONAL,
iE-Extensions      ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

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 {
-- R3-001616,CR113r2
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode          UL-FP-Mode,
toAWS               ToAWS,
toAWE               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,
-- R3-001616,CR113r2
dCH-CombinationInd DCH-CombinationInd OPTIONAL,
-- R3-001257,CR78r2
limitedPowerIncrease LimitedPowerIncrease,
trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
ul-BLER             BLER,
dl-BLER             BLER,
allocationRetentionPriority AllocationRetentionPriority,
frameHandlingPriority FrameHandlingPriority,
-- R3-001616,CR113r2
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode          UL-FP-Mode,
qE-Selector         QE-Selector,
-- R3-001616,CR113r2
toAWS               ToAWS,
toAWE               ToAWE,
dRACControl        DRACControl,

```

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```
| iE-Extensions ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,  
| ...  
| }  
| 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,  
    iE-Extensions ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
-- R3-001592,CR74r6  
DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {  
    dSCH-Information DSCH-ModifyInfo-RL-ReconfPrepFDD OPTIONAL,  
    pdSCH-RL-ID RL-ID OPTIONAL,  
    tFCS TFCS OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
DSCH-Modify-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-ReconfPrepFDD  
  
DSCH-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {  
    dSCH-ID DSCH-ID,  
    trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCh-SrcStatisticsDescr OPTIONAL,  
    transportFormatSet TransportFormatSet OPTIONAL,  
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,  
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,  
    bLER BLER OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { {DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {  
    dSCH-Information DSCH-AddInfo-RL-ReconfPrepFDD,  
    pdSCH-RL-ID RL-ID,
```



```

tFCS                TFCS,
iE-Extensions       ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DSCH-Add-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-ReconfPrepFDD

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            DSCH-ID,
iE-Extensions       ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }

RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-Information-RL-ReconfPrepFDD    CRITICALITY reject    TYPE RL-Information-RL-ReconfPrepFDD    PRESENCE mandatory },
...
}

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
rL-ID            RL-ID,
sSDT-Indication  SSdT-Indication    OPTIONAL,
sSDT-CellIdentity SSdT-CellID      OPTIONAL
-- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
iE-Extensions       ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

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```
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-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
-- R3-001351,CR87r1
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional
    } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  PRESENCE
optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional
    } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  PRESENCE
optional } |
    { 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 } } |
-- R3-001592,CR74r6
    { 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 ::= {
    { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD  PRESENCE mandatory },
    ...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
```

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```
tFCS                TFCS OPTIONAL,
tFCI-Coding         tFCI-Coding OPTIONAL,
punctureLimit      PunctureLimit OPTIONAL,
iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001351,CR87r1
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD PRESENCE mandatory
},
...
}

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
cTrCH-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 {
cTrCH-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 ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS OPTIONAL,
  tFCI-Coding TFCI-Coding OPTIONAL,
  punctureLimit PunctureLimit OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS OPTIONAL,
  tFCI-Coding TFCI-Coding OPTIONAL,
  punctureLimit PunctureLimit OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationModifyItem-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 ::= {
  { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  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 {
-- R3-001616,CR113r2
    ul-FP-Mode                UL-FP-Mode                OPTIONAL,
    toAWS                     ToAWS                 OPTIONAL,
    toAWE                     ToAWE                 OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions             ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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,
-- R3-001616,CR113r2
    ul-FP-Mode                UL-FP-Mode                OPTIONAL,
    toAWS                     ToAWS                 OPTIONAL,
    toAWE                     ToAWE                 OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
-- R3-001616,CR113r2
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                UL-FP-Mode,
    toAWS                     ToAWS,
    toAWE                     ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions             ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
}

```

```

    ...
}
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,
-- R3-001616,CR113r2
    dCH-CombinationInd   DCH-CombinationInd OPTIONAL,
-- R3-001257,CR78r2
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet  TransportFormatSet,
    dl-TransportformatSet  TransportFormatSet,
    ul-BLER                BLER,
    dl-BLER                BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
-- R3-001616,CR113r2
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode              UL-FP-Mode,
-- R3-001564,CR103r2
    qE-Selector            QE-Selector,
-- R3-001616,CR113r2
    toAWS                 ToAWS,
    toAWE                 ToAWE,
    iE-Extensions         ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}
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 ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions         ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- R3-001592,CR74r6

```

DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD

```

DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  dl-ccTrCHID            CCTrCH-ID,
  trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCh-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 TrChSourceStatisticsDescriptorTrCh-SrcStatisticsDescr,
  transportFormatSet     TransportFormatSet,
  allocationRetentionPriority AllocationRetentionPriority,
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  bLER                   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                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 ::= SEQUENCE {
  uSCH-ID                USCH-ID  OPTIONAL,
  ul-ccTrCHID            CCTrCH-ID  OPTIONAL,
}

```

```

trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCH-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 ::= SEQUENCE {
uSCH-ID USCH-ID,
ul-ccTrCHID CCH-CH-ID,
trChSourceStatisticsDescriptor TrChSourceStatisticsDescriptorTrCH-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 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 ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationReadyFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}
    ...
}

RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    optional { 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 ::= {
    mandatory { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD    CRITICALITY ignore    TYPE RL-InformationResponseItem-RL-ReconfReadyFDD    PRESENCE
    ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR                OPTIONAL,
    min-UL-SIR           UL-SIR                OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfReadyFDD    OPTIONAL,
    dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD    OPTIONAL,
    -- R3-001205,CR79r1
    dCHsToBeAdded                DCH-AddList-RL-ReconfReadyFDD                OPTIONAL,
    dCHsToBeModified            DCH-ModifyList-RL-ReconfReadyFDD            OPTIONAL,
    dCHsInformationResponseList    DCH-InformationResponseList-RL-ReconfReadyFDD    OPTIONAL,
    -- R3-001592,CR74r6
    dSCHToBeAddedOrModified        DSCHToBeAddedOrModified-RL-ReconfReadyFDD        OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

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               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,
}

```

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```
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-ReconfReadyFDD-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                          IB-SG-POS,
iE-Extensions                     ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
...
}

SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}

DL-CodeInformationListIEs-RL-ReconfReadyFDD 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,
    -- R3-001608,CR126r2
    transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001205,CR79r1
DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-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 PRESENCE
    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,
    iE-Extensions  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfReadyFDD} }

DCH-AddListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

DCH-AddListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReadyFDD

DCH-AddItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dch-ID          DCH-ID,
    bindingID       BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions  ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DCH-AddItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfReadyFDD} }

DCH-ModifyListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

DCH-ModifyListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReadyFDD

DCH-ModifyItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001592,CR74r6
DSCHToBeAddedOrModified-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {
    dschInformation DSCHInformation-RL-ReconfReadyFDD,
    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,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {DSCHInformation-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyFDD

PriorityIndicatorItem-RL-ReconfReadyFDD ::= SEQUENCE {
    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..maxNrOfbMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION READY TDD
--
-- *****

RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkReconfigurationReadyTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer    {{RadioLinkReconfigurationReadyTDD-Extensions}}
    ...
}

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 ::= SEQUENCE {
    rL-ID          RL-ID,
    max-UL-SIR    UL-SIR          OPTIONAL,
    min-UL-SIR    UL-SIR          OPTIONAL,
    ul-CCTrCH-Information
                  UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information
                  DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
}
-- R3-001205,CR79r1

```

```

dCHsToBeAdded DCH-AddList-RL-ReconfReadyTDD OPTIONAL,
dCHsToBeModified DCH-ModifyList-RL-ReconfReadyTDD OPTIONAL,
dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
-- R3-001592,CR74r6
dSCHsToBeAddedOrModified DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
uSCHsToBeAddedOrModified USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-ReconfReadyTDD PRESENCE
mandatory },
...
}

UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
cCTrCH-ID CCTrCH-ID,
-- R3-001351,CR87r1
ul-DPCH-AddInformation UL-DPCH-InformationAddList-RL-ReconfReadyTDD OPTIONAL,
ul-DPCH-ModifyInformation UL-DPCH-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
ul-DPCH-DeleteInformation UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD 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-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 (SIZE (0+..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfReadyTDD

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
dPCH-ID DPCH-ID,
tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
burstType BurstType OPTIONAL,
midambleShift MidambleShift OPTIONAL,

```

```

timeSlot          TimeSlot          OPTIONAL,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
repetitionPeriod  RepetitionPeriod  OPTIONAL,
repetitionLength  RepetitionLength  OPTIONAL,
tFCI-Presence     TFCI-Presence     OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { {UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001351,CR87r1
UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
  PRESENCE mandatory },
  ...
}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID          DPCH-ID,
  tDD-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
  burstType        BurstType  OPTIONAL,
  midambleShift    MidambleShift  OPTIONAL,
  timeSlot         TimeSlot  OPTIONAL,
  tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
  repetitionPeriod  RepetitionPeriod  OPTIONAL,
  repetitionLength  RepetitionLength  OPTIONAL,
  tFCI-Presence     TFCI-Presence  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { {UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
  PRESENCE mandatory },
  ...
}

UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

```

```

UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE DL-CCTrCHInformationListIE-RL-ReconfReadyTDD    PRESENCE
    mandatory },
    ...
}

DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    -- R3-001351,CR87r1
    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,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-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 (SIZE (0+..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfReadyTDD

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    burstType              BurstType    OPTIONAL,
    midambleShift          MidambleShift    OPTIONAL,
    timeSlot               TimeSlot    OPTIONAL,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset    OPTIONAL,
    repetitionPeriod       RepetitionPeriod    OPTIONAL,
    repetitionLength       RepetitionLength    OPTIONAL,
}

```



```

    tFCI-Presence          TFCI-Presence          OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001351,CR87r1
DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
    PRESENCE mandatory },
    ...
}

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode          OPTIONAL,
    burstType              BurstType          OPTIONAL,
    midambleShift          MidambleShift        OPTIONAL,
    timeSlot               TimeSlot           OPTIONAL,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset    OPTIONAL,
    repetitionPeriod       RepetitionPeriod    OPTIONAL,
    repetitionLength       RepetitionLength    OPTIONAL,
    tFCI-Presence          TFCI-Presence      OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
    PRESENCE mandatory },
    ...
}

DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001205,CR79r1
DCH-InformationResponseList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-InformationResponseListIEs-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 ::= {
    ...
}

DCH-AddList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfReadyTDD} }

DCH-AddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfReadyTDD PRESENCE mandatory },
    ...
}

DCH-AddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReadyTDD

DCH-AddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfReadyTDD} }

DCH-ModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfReadyTDD PRESENCE mandatory },

```

```

...
}

DCH-ModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReadyTDD

DCH-ModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dch-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-ModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE
  mandatory } ,
  ...
}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  priorityIndicator PriorityIndicator-RL-ReconfReadyTDD,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicator-RL-ReconfReadyTDD ::= SEQUENCE (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..maxNrOfbMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-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,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****

RadioLinkReconfigurationCommit ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationCommit-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}} OPTIONAL,
  ...
}

RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory }|7
  -- R3-001608,CR126r2
  { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE optional },
  ...
}

RadioLinkReconfigurationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--

```

```

-- RADIO LINK RECONFIGURATION FAILURE
--
-- *****

RadioLinkReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkReconfigurationFailure-IEs}},
    protocolExtensions   ProtocolExtensionContainer   {{RadioLinkReconfigurationFailure-Extensions}}          OPTIONAL,
    ...
}

RadioLinkReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
-- R3-001451,CR135
{ ID id-Cause          CRITICALITY ignore TYPE Cause          PRESENCE mandatory } |
{ ID id-CauseLevel-RL-ReconfigurationFailureList-RL-ReconfFailure          CRITICALITY ignore TYPE RL-CauseLevelReconfigurationFailureList-RL-
ReconfFailure          PRESENCE mandatoryoptional } |
{ ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

-- R3-001451,CR135
CauseLevel-RL-ReconfFailure ::= CHOICE {
    generalCause          GeneralCauseList-RL-ReconfFailure,
    rLspecificCause       RLspecificCauseList-RL-ReconfFailure,
    ...
}

GeneralCauseList-RL-ReconfFailure ::= ProtocolIE-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          Cause,
iE-Extensions          ProtocolExtensionContainer { { GeneralCauseItem-RL-ReconfFailure-ExtIEs} }          OPTIONAL,
    ...
}

GeneralCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-SpecificCauseReconfigurationFailureList-RL-ReconfFailure ::= ProtocolIE-Container {{ RLspecificCauseIE-RL-ReconfFailure }}

RLspecificCauseIE-RL-ReconfFailure RNSAP-PROTOCOL-IES ::= {
{ ID id-RLspecificCauseItem-RL-ReconfFailure          CRITICALITY ignore TYPE RLspecificCauseItem-RL-ReconfFailure
PRESENCE mandatory },
    ...
}

RLspecificCauseItem-RL-ReconfFailure ::= SEQUENCE {
rL-ReconfigurationFailureList-RL-ReconfFailure          RL-ReconfigurationFailureList-RL-ReconfFailure          OPTIONAL,

```

```

    iE-Extensions
    ...
  ]
  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-ReconfFailure CRITICALITY ignore TYPE RL-ReconfigurationFailure-RL-ReconfFailure PRESENCE mandatory },
    ...
  }

  RL-ReconfigurationFailure-RL-ReconfFailure ::= SEQUENCE {
    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 {
    protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationCancel-IEs}},
    protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}} OPTIONAL,
    ...
  }

  RadioLinkReconfigurationCancel-IEs RNSAP-PROTOCOL-IES ::= {
    ...
  }

  RadioLinkReconfigurationCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }

  -- *****
  --
  -- RADIO LINK RECONFIGURATION REQUEST FDD

```

```

--
-- *****
RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
    ...
}

RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstFDD          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 } }
-- R3-001608,CR126r2
    { ID id-Transmission-Gap-Pattern-Sequence-Information          CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }
},
    ...
}

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    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          TFCS          OPTIONAL,
    tFCI-SignallingMode          TFCI-SignallingMode          OPTIONAL,
-- R3-001257,CR78r2
    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 {
-- R3-001616,CR113r2
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS          ToAWS          OPTIONAL,
    toAWE          ToAWE          OPTIONAL,
    dCH-SpecificInformationList          DCH-SpecificInformationList-RL-ReconfRqstFDD,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstFDD

DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    -- R3-001616,CR113r2
    ul-FP-Mode            UL-FP-Mode            OPTIONAL,
    toAWS                 ToAWS                 OPTIONAL,
    toAWE                 ToAWE                 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 {
    -- R3-001616,CR113r2
    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-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    -- R3-001616,CR113r2
    dCH-CombinationInd    DCH-CombinationInd OPTIONAL,
    -- R3-001257,CR78r2

```



```

limitedPowerIncrease LimitedPowerIncrease,
trCH-SrcStatisticsDescr      TrCH-SrcStatisticsDescr,
ul-TransportformatSet        TransportFormatSet,
dl-TransportformatSet        TransportFormatSet,
ul-BLER                       BLER,
dl-BLER                       BLER,
allocationRetentionPriority    AllocationRetentionPriority,
frameHandlingPriority          FrameHandlingPriority,
-- R3-001616,CR113r2
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode                    UL-FP-Mode,
qE-Selector                   QE-Selector,
-- R3-001616,CR113r2
toAWS                          ToAWS,
toAWE                          ToAWE,
dRACControl                   DRACControl,
iE-Extensions                  ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

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          DCH-ID,
iE-Extensions  ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
...
}

DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
protocolIEs          ProtocolIE-Container      {{RadioLinkReconfigurationRequestTDD-IEs}},
protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}
...
}

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {

```

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```
{ ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
-- R3-001351,CR87r1
{ ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE
optional } |
{ ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE
optional } |
{ ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  PRESENCE
optional } |
{ ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  PRESENCE
optional } |
{ ID id-DCH-ModifyList-RL-ReconfRqstTDD  CRITICALITY reject  TYPE DCH-ModifyList-RL-ReconfRqstTDD  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 ::= {
{ ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  PRESENCE
mandatory },
...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
cTrCH-ID          CCTrCH-ID,
tFCS              TFCS,
iE-Extensions     ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001351,CR87r1
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  PRESENCE
mandatory },
...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
cTrCH-ID          CCTrCH-ID,
iE-Extensions     ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
```

```

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001351,CR87r1
DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-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 {
  -- R3-001616,CR113r2
  ul-FP-Mode UL-FP-Mode OPTIONAL,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL,
  dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfRqstTDD,
  iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

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-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    -- R3-001616,CR113r2
    ul-FP-Mode          UL-FP-Mode      OPTIONAL,
    toAWS                ToAWS          OPTIONAL,
    toAWE                ToAWE          OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    -- R3-001616,CR113r2
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS                ToAWS,
    toAWE                ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
    iE-Extensions         ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstTDD

DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    -- R3-001257,CR78r2
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    -- R3-001616,CR113r2
    dCH-CombinationInd    DCH-CombinationInd OPTIONAL,
    ul-TransportformatSet TransportFormatSet,

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dl-TransportformatSet      TransportFormatSet,
ul-BLER                    BLER,
dl-BLER                    BLER,
allocationRetentionPriority AllocationRetentionPriority,
frameHandlingPriority      FrameHandlingPriority,
-- R3-001616,CR113r2
ul-FP-Mode                 UL-FP-Mode,
-- R3-001564,CR103r2
qE-Selector                QE-Selector,
-- R3-001616,CR113r2
toAWS                      ToAWS,
toAWE                      ToAWE,
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                      DCH-ID,
iE-Extensions              ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK RECONFIGURATION RESPONSE
--
-- *****

RadioLinkReconfigurationResponse ::= SEQUENCE {
protocolIEs                  ProtocolIE-Container      {{RadioLinkReconfigurationResponse-IEs}},
protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}
...
}

RadioLinkReconfigurationResponse-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-InformationResponseList-RL-ReconfRsp CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRsp PRESENCE optional } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

```

```

RL-InformationResponseList-RL-ReconfRsp ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfRsp-IEs} }

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,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp OPTIONAL,
  -- R3-001205,CR179r1
  dCHsToBeAdded DCH-AddList-RL-ReconfRsp OPTIONAL,
  dCHsToBeModified DCH-ModifyList-RL-ReconfRsp OPTIONAL,
  dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfRsp OPTIONAL,
  -- R3-001608,CR126r2
  dL-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
  ...
}

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 ::= SEQUENCE (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,
    iE-Extensions      ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfRsp

SegmentInformationItem-RL-ReconfRsp ::= SEQUENCE {
    iB-SG-POS          IB-SG-POS,
    iE-Extensions      ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001205,CR79r1
DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-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,
    iE-Extensions      ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfRsp ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfRsp} }

```

```

DCH-AddListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
  _____ { ID id-DCH-AddListIE-RL-ReconfRsp _____ CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfRsp _____ PRESENCE mandatory _____ },
  _____
}

DCH-AddListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRsp

DCH-AddItem-RL-ReconfRsp ::= SEQUENCE {
  _____ dCH-ID _____ DCH-ID,
  _____ bindingID _____ BindingID,
  _____ transportLayerAddress _____ TransportLayerAddress,
  _____ iE-Extensions _____ ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRspFDD-ExtIEs} } OPTIONAL,
  _____
}

DCH-AddItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  _____
}

DCH-ModifyList-RL-ReconfRsp _____ ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfRsp} }

DCH-ModifyListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
  _____ { ID id-DCH-ModifyListIE-RL-ReconfRsp _____ CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfRsp _____ PRESENCE mandatory _____ },
  _____
}

DCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRsp

DCH-ModifyItem-RL-ReconfRsp ::= SEQUENCE {
  _____ dCH-ID _____ DCH-ID,
  _____ bindingID _____ BindingID,
  _____ transportLayerAddress _____ TransportLayerAddress,
  _____ iE-Extensions _____ ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
  _____
}

DCH-ModifyItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  _____
}

-- R3-001608,CR126r2
DL-CodeInformationList-RL-ReconfRsp ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-ReconfRsp }}

DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
  _____ { ID id-DL-CodeInformationListIE-RL-ReconfRsp _____ CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfRsp _____ 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,
    iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK FAILURE INDICATION
--
-- *****

RadioLinkFailureIndication ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container {{RadioLinkFailureIndication-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkFailureIndication-Extensions}} OPTIONAL,
    ...
}

RadioLinkFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Reporting-Object-RL-FailureInd CRITICALITY ignore TYPE Reporting-Object-RL-FailureInd PRESENCE mandatory },
    ...
}

Reporting-Object-RL-FailureInd ::= CHOICE {
-- R3-001321,CR98
    rL          RL-RL-FailureIndInformationList-RL-FailureInd,
    rL-Set      RL-Set-RL-FailureIndInformationList-RL-FailureInd,
    ...
}

-- R3-001321,CR98
RL-RL-FailureInd ::= ProtocolIE-Container { { RLIE-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-InformationList-RL-FailureInd          ::= RL-IE-ContainerList1 { {RL-Information-RL-FailureInd-IEs} }

RL-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-FailureInd    CRITICALITY ignore   TYPE RL-Information-RL-FailureInd    PRESENCE mandatory },
    ...
}

RL-Information-RL-FailureInd ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001321,CR98
RL-Set-RL-FailureInd          ::= ProtocolIE-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 ::= SEQUENCE {
    rL-Set-InformationList-RL-FailureInd    RL-Set-InformationList-RL-FailureInd,
    iE-Extensions                           ProtocolExtensionContainer { { RL-SetItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    ...
}

RL-SetItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-RL-FailureInd          ::= RL-Set-IE-ContainerList { {RL-Set-Information-RL-FailureInd-IEs} }

RL-Set-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-FailureInd    CRITICALITY ignore   TYPE RL-Set-Information-RL-FailureInd    PRESENCE mandatory },
    ...
}

```

```

RL-Set-Information-RL-FailureInd ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    cause              Cause,
    iE-Extensions     ProtocolExtensionContainer { {RL-Set-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    ...
}

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 ::= {
    { ID id-Reporting-Object-RL-RestoreInd  CRITICALITY ignore  TYPE Reporting-Object-RL-RestoreInd  PRESENCE mandatory  },
    ...
}

Reporting-Object-RL-RestoreInd ::= CHOICE {
    -- R3-001321,CR98
    rL          RL-InformationList-RL-RestoreInd,
    rL-Set     RL-Set-InformationList-RL-RestoreInd,
    ...
}

-- R3-001321,CR98
RL-RL-RestoreInd ::= ProtocolIE-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-InformationList-RL-RestoreInd ::= RL-IE-ContainerList1 { {RL-Information-RL-RestoreInd-IEs} }

RL-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-RestoreInd          CRITICALITY ignore  TYPE RL-Information-RL-RestoreInd          PRESENCE mandatory  },
    ...
}

RL-Information-RL-RestoreInd ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001321,CR98
RL-Set-RL-RestoreInd ::= ProtocolIE-Container { { RL-SetIE-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 ::= SEQUENCE {
    rL-Set-ID                RL-Set-ID,
    iE-Extensions            ProtocolExtensionContainer { {RL-Set-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
    ...
}

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-Rqst CRITICALITY ignore TYPE DL-ReferencePowerInformationList-DL-PC-Rqst PRESENCE conditional} |
  -- This IE is present only 'Adjustment Type' equals to 'Individual'
  -- R3-001612,CR108r2
  { ID id-MaxAdjustmentStep            CRITICALITY ignore TYPE ScaledMaxAdjustmentStep          PRESENCE conditional} |
  -- This IE is present only 'Adjustment Type " equals to 'Common' or 'Individual'
  { ID id-MaxAdjustmentPeriod          CRITICALITY ignore TYPE ScaledMaxAdjustmentPeriod          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'
  ...
}

DL-ReferencePowerInformationList-DL-PC-Rqst ::= RL-IE-ContainerList1 { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs} }

DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformation-DL-PC-Rqst CRITICALITY ignore TYPE DL-ReferencePowerInformation-DL-PC-Rqst PRESENCE mandatory },
  ...
}

DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE {
  rL-ID          RL-ID,
  dl-Reference-Power          DL-Power,
  iE-Extensions              ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs} } OPTIONAL,
  ...
}

DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

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```
DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

PhysicalChannelReconfigurationRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{PhysicalChannelReconfigurationRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestFDD-Extensions}} OPTIONAL,
    ...
}

PhysicalChannelReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-PhyChReconfRqstFDD CRITICALITY reject TYPE RL-Information-PhyChReconfRqstFDD PRESENCE mandatory },
    ...
}

RL-Information-PhyChReconfRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-CodeInformations  DL-CodeInformationList-PhyChReconfRqstFDD,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-PhyChReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-PhyChReconfRqstFDD ::= ProtocolIE-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 {
    protocolIEs          ProtocolIE-Container    {{PhysicalChannelReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestTDD-Extensions}}
    ...
}

PhysicalChannelReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-PhyChReconfRqstTDD    CRITICALITY reject    TYPE RL-Information-PhyChReconfRqstTDD    PRESENCE mandatory    },
    ...
}

RL-Information-PhyChReconfRqstTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    ul-CCTrCH-Information    UL-CCTrCH-InformationList-PhyChReconfRqstTDD,
    dl-CCTrCH-Information    DL-CCTrCH-InformationList-PhyChReconfRqstTDD,
    iE-Extensions          ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {UL-CCTrCH-InformationListIEs-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 ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-PhyChReconfRqstTDD

UL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCtRCH-ID            CCTrCH-ID,
    ul-DPCH-Information    UL-DPCH-InformationList-PhyChReconfRqstTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-PhyChReconfRqstTDD ::= DPCH-IE-ContainerList {{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 {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode  OPTIONAL,
  burstType              BurstType                OPTIONAL,
  midambleShift         MidambleShift            OPTIONAL,
  timeSlot              TimeSlot                 OPTIONAL,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset  OPTIONAL,
  repetitionPeriod      RepetitionPeriod         OPTIONAL,
  repetitionLength      RepetitionLength         OPTIONAL,
  tFCI-Presence         TFCI-Presence            OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { {UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }

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-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRqstTDD

DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID                CCTrCH-ID,
  dl-DPCH-Information      DL-DPCH-InformationList-PhyChReconfRqstTDD,
  iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationList-PhyChReconfRqstTDD ::= DPCH-IE-ContainerList {{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 {

```



```

dPCH-ID                DPCH-ID,
tDD-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
burstType              BurstType                OPTIONAL,
midambleShift         MidambleShift            OPTIONAL,
timeSlot              TimeSlot                 OPTIONAL,
tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset  OPTIONAL,
repetitionPeriod      RepetitionPeriod         OPTIONAL,
repetitionLength      RepetitionLength         OPTIONAL,
tFCI-Presence         TFCI-Presence            OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

PhysicalChannelReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION COMMAND
--
-- *****

PhysicalChannelReconfigurationCommand ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{PhysicalChannelReconfigurationCommand-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{PhysicalChannelReconfigurationCommand-Extensions}}
    ...
}

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}}
    ...
}

```

```

}

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
--
-- *****

UplinkSignallingTransferIndication ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{UplinkSignallingTransferIndication-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{UplinkSignallingTransferIndication-Extensions}} OPTIONAL,
  ...
}

UplinkSignallingTransferIndication-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UC-ID          CRITICALITY ignore TYPE UC-ID          PRESENCE mandatory } |
  { ID id-SAI            CRITICALITY ignore TYPE SAI            PRESENCE mandatory } |
  -- R3-001615,CR133r2
  { 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 } |
  { 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-Ind CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind PRESENCE
optional },
  ...
}

-- R3-001617,CR106r2
RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-Ind

RNCsWithCellsInTheAccessedURA-Item-UL-ST-Ind ::= SEQUENCE {
  rNC-ID                RNC-ID,
  iE-Extensions         ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind-ExtIEs} } OPTIONAL,
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

UplinkSignallingTransferIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- DOWNLINK SIGNALLING TRANSFER REQUEST
--
-- *****

DownlinkSignallingTransferRequest ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container  {{DownlinkSignallingTransferRequest-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{DownlinkSignallingTransferRequest-Extensions}}
  ...
}

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 CRITICALITY ignore TYPE D-RNTI-ReleaseIndication PRESENCE mandatory },
  ...
}

DownlinkSignallingTransferRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RELOCATION COMMIT
--
-- *****

RelocationCommit ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container  {{RelocationCommit-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RelocationCommit-Extensions}}
  ...
}

RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI       CRITICALITY ignore TYPE D-RNTI       PRESENCE optional } |
  { ID id-RANAP-RelocationInformation CRITICALITY ignore TYPE RANAP-RelocationInformation PRESENCE optional },
  ...
}

RelocationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****

```

```

--
-- PAGING REQUEST
--
-- *****

PagingRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{PagingRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PagingRequest-Extensions}}    OPTIONAL,
    ...
}

PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-PagingArea-PagingRqst          CRITICALITY ignore TYPE PagingArea-PagingRqst          PRESENCE mandatory } |
    { ID id-SRNC-ID                        CRITICALITY ignore TYPE RNC-ID                      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        PRESENCE mandatory },
    ...
}

PagingArea-PagingRqst ::= CHOICE {
    uRA          URA-PagingRqst,
    cell         Cell-PagingRqst,
    ...
}

URA-PagingRqst ::= ProtocolIE-Container {{ URAIE-PagingRqst }}

URAIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
    { ID id-URAIItem-PagingRqst    CRITICALITY ignore TYPE URAIItem-PagingRqst PRESENCE mandatory },
    ...
}

URAIItem-PagingRqst ::= SEQUENCE {
    uRA-ID          URA-ID,
    iE-Extensions   ProtocolExtensionContainer { { URAIItem-PagingRqst-ExtIEs } } OPTIONAL,
    ...
}

URAIItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-PagingRqst ::= ProtocolIE-Container {{ CellIE-PagingRqst }}

CellIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
    { ID id-CellItem-PagingRqst    CRITICALITY ignore TYPE CellItem-PagingRqst PRESENCE mandatory },
    ...
}

CellItem-PagingRqst ::= SEQUENCE {
    c-ID          C-ID,
    iE-Extensions ProtocolExtensionContainer { { CellItem-PagingRqst-ExtIEs } } OPTIONAL,
}

```

```

}
...
}
CellItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
PagingRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- DEDICATED MEASUREMENT INITIATION REQUEST
--
-- *****

DedicatedMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{DedicatedMeasurementInitiationRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer    {{DedicatedMeasurementInitiationRequest-Extensions}}
    ...
}
OPTIONAL,

DedicatedMeasurementInitiationRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY reject TYPE MeasurementID          PRESENCE mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory } |
    -- R3-001638,CR163rr1
    -- 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          RL-DM-Rqst,
    rLS         RL-Set-DM-Rqst,
    -- R3-001541,CR116r1
    allRL       All-RL-DM-Rqst,
    allRLS      All-RL-Set-DM-Rqst,
    ...
}

RL-DM-Rqst ::= ProtocolIE-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-Rqst ::= SEQUENCE {
    rL-InformationList-DM-Rqst      RL-InformationList-DM-Rqst,

```

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```
iE-Extensions          ProtocolExtensionContainer { { RLItem-DM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

RLItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-DM-Rqst          ::= RL-IE-ContainerList1 { {RL-Information-DM-Rqst-IEs} }

RL-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst          CRITICALITY reject  TYPE RL-InformationItem-DM-Rqst          PRESENCE mandatory  },
    ...
}

RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID          RL-ID,
    dPCH-ID        DPCH-ID          OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-DM-Rqst ::= ProtocolIE-Container { { RL-SetIE-DM-Rqst } }

RL-SetIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rqst          CRITICALITY reject  TYPE RL-SetItem-DM-Rqst          PRESENCE mandatory  },
    ...
}

RL-SetItem-DM-Rqst ::= SEQUENCE {
    rL-Set-InformationList-DM-Rqst RL-Set-InformationList-DM-Rqst,
    iE-Extensions          ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

RL-SetItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rqst          ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rqst-IEs} }

RL-Set-Information-DM-Rqst-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-Rqst ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    iE-Extensions          ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
```

```

}
...
}
RL-Set-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001541,CR116r1
All-RL-DM-Rqst ::= ProtocolIE-Container {{ All-RLIE-DM-Rqst }}

All-RLIE-DM-Rqst RNSAPNBAP-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-Container {{ All-RLIE-Set-DM-Rqst }}

All-RLIE-Set-DM-Rqst RNSAPNBAP-PROTOCOL-IES ::= {
  { ID id-All-RLItem-Set-DM-Rqst CRITICALITY ignore TYPE All-RLItem-Set-DM-Rqst PRESENCE mandatory },
  ...
}

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 } |
  { ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp PRESENCE mandatory } |
  { ID id-CFN 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,

```

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```
-- R3-001541,CR116r1
allRL           AllRL-DM-Rsp,
allRLS         AllRL-Set-DM-Rsp,
...
}

RL-DM-Rsp ::= ProtocolIE-Container {{ RLIE-DM-Rsp }}

RLIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DM-Rsp          CRITICALITY ignore          TYPE          RLItem-DM-Rsp          PRESENCE          mandatory },
  ...
}

RLItem-DM-Rsp ::= SEQUENCE {
  rL-InformationList-DM-Rsp          RL-InformationList-DM-Rsp,
  iE-Extensions                      ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } } OPTIONAL,
  ...
}

RLItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-DM-Rsp ::= ProtocolIE-Container {{ RL-SetIE-DM-Rsp }}

RL-SetIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-SetItem-DM-Rsp          CRITICALITY ignore          TYPE          RL-SetItem-DM-Rsp          PRESENCE mandatory },
  ...
}

RL-SetItem-DM-Rsp ::= SEQUENCE {
  rL-Set-InformationList-DM-Rsp          RL-Set-InformationList-DM-Rsp,
  iE-Extensions                      ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } } OPTIONAL,
  ...
}

RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001541,CR116r1
AllRL-DM-Rsp ::= ProtocolIE-Container {{ AllRLIE-DM-Rsp }}

AllRLIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
  { ID id-AllRLItem-DM-Rsp          CRITICALITY ignore          TYPE          AllRLItem-DM-Rsp          PRESENCE mandatory },
  ...
}

AllRLItem-DM-Rsp ::= SEQUENCE {
  rL-InformationList-DM-Rsp          RL-InformationList-DM-Rsp,
  iE-Extensions                      ProtocolExtensionContainer { { AllRLItem-DM-Rsp-ExtIEs } } OPTIONAL,
  ...
}
```



```

AllRLItem-DM-Rsp-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllRL-Set-DM-Rsp ::= ProtocolIE-Container { { AllRL-SetIE-DM-Rsp } }

AllRL-SetIE-DM-Rsp-RNSAP-PROTOCOL-IES ::= {
    { ID id-AllRL-SetItem-DM-Rsp CRITICALITY ignore TYPE AllRL-SetItem-DM-Rsp PRESENCE mandatory },
    ...
}

AllRL-SetItem-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp RL-Set-InformationList-DM-Rsp,
    iE-Extensions ProtocolExtensionContainer { { AllRL-SetItem-DM-Rsp-ExtIEs } } OPTIONAL,
    ...
}

AllRL-SetItem-DM-Rsp-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-DM-Rsp ::= RL-IE-ContainerList1 { { RL-Information-DM-Rsp-IEs } }

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,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-DM-Rsp-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rsp-ExtIEs-RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rsp ::= RL-Set-IE-ContainerList { { RL-Set-Information-DM-Rsp-IEs } }

RL-Set-Information-DM-Rsp-IEs-RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rsp PRESENCE mandatory },
    ...
}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID RL-Set-ID,
    dedicatedMeasurementValue DedicatedMeasurementValue,
    iE-Extensions ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rspns-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

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}}
  ...
}

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          ProtocolIE-Container    {{DedicatedMeasurementReport-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}
  ...
}

DedicatedMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE mandatory } |
  { ID id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory } |
  { ID id-CFN                    CRITICALITY ignore TYPE CFN                    PRESENCE optional },
  ...
}

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {

```

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```
rLs                RL-DM-Rprt,
rLS                RL-Set-DM-Rprt,
-- R3-001541,CR116r1
allRL              AllRL-DM-Rprt,
allRLS            AllRL-Set-DM-Rprt,
...
}

RL-DM-Rprt ::= ProtocolIE-Container {{ RLIE-DM-Rprt }}

RLIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DM-Rprt      CRITICALITY ignore      TYPE      RLItem-DM-Rprt      PRESENCE      mandatory },
  ...
}

RLItem-DM-Rprt ::= SEQUENCE {
  rL-InformationList-DM-Rprt  RL-InformationList-DM-Rprt,
  iE-Extensions              ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

RLItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-DM-Rprt ::= ProtocolIE-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,
  iE-Extensions                  ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

RL-SetItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001541,CR116r1
AllRL-DM-Rprt ::= ProtocolIE-Container {{ AllRLIE-DM-Rprt }}

AllRLIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
  { ID id-AllRLItem-DM-Rprt  CRITICALITY ignore      TYPE      AllRLItem-DM-Rprt      PRESENCE mandatory },
  ...
}

AllRLItem-DM-Rprt ::= SEQUENCE {
  rL-InformationList-DM-Rprt  RL-InformationList-DM-Rprt,
  iE-Extensions              ProtocolExtensionContainer { { AllRLItem-DM-Rprt-ExtIEs } } OPTIONAL,
```

```


...
}
AllRLItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
AllRL-Set-DM-Rprt ::= ProtocolIE-Container {{ AllRL-SetIE-DM-Rprt }}
AllRL-SetIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
{ ID id-AllRL-SetItem-DM-Rprt CRITICALITY ignore TYPE AllRL-SetItem-DM-Rprt PRESENCE mandatory },
...
}
AllRL-SetItem-DM-Rprt ::= SEQUENCE {

rL-Set-InformationList-DM-Rprt RL-Set-InformationList-DM-Rprt,
iE-Extensions ProtocolExtensionContainer { { AllRL-SetItem-DM-Rprt-ExtIEs } } OPTIONAL,
...
}
AllRL-SetItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RL-InformationList-DM-Rprt ::= RL-IE-ContainerList1 { {RL-Information-DM-Rprt-IEs} }
RL-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt PRESENCE mandatory },
...
}
RL-InformationItem-DM-Rprt ::= SEQUENCE {
rL-ID RL-ID,
dPCH-ID DPCH-ID OPTIONAL,

-- R3-001639,CR128r2
dedicatedMeasurementValue DedicatedMeasurementValue,
measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
...
}
RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RL-Set-InformationList-DM-Rprt ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rprt-IEs} }
RL-Set-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-Set-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rprt PRESENCE mandatory },
...
}
RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {


```

```

rL-Set-ID                RL-Set-ID,
-- R3-001639,CR128r2
dedicatedMeasurementValue DedicatedMeasurementValue,
measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
ie-Extensions            ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
...
}

RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- R3-001639,CR128r2
MeasurementAvailabilityIndicatorItem-DedicatedMeasurementReport ::= CHOICE {
measurementAvailable      MeasurementAvailable-DedicatedMeasurementReport,
measurementnotAvailable   MeasurementnotAvailable-DedicatedMeasurementReport,
...
}

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-Container {{ MeasurementAvailableIE-DedicatedMeasurementReport }}

MeasurementAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
{ ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport
PRESENCE mandatory},
...
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
dedicatedmeasurementValue DedicatedMeasurementValue,
ie-Extensions            ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs} } OPTIONAL,
...
}

MeasurementAvailableItem-DedicatedMeasurementReport-ExtIEs RNSAP-PROTOCOL-EXTENSIONS ::= {
...
}

MeasurementnotAvailable-DedicatedMeasurementReport ::= ProtocolIE-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}},
    protocolExtensions   ProtocolExtensionContainer {{DedicatedMeasurementTerminationRequest-Extensions}}
    ...
}

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}},
    protocolExtensions   ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}
    ...
}

DedicatedMeasurementFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE mandatory } |
    { ID id-Cause                  CRITICALITY ignore TYPE Cause                  PRESENCE mandatory },
    ...
}

DedicatedMeasurementFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST
--
-- *****

CommonTransportChannelResourcesReleaseRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{CommonTransportChannelResourcesReleaseRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelResourcesReleaseRequest-Extensions}}
OPTIONAL,
    ...
}

```

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```
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 } |
  -- R3-001617,CR106r2
  { ID id-C-ID           CRITICALITY reject TYPE C-ID           PRESENCE optional  } |
  { ID id-TransportBearerRequestIndicator CRITICALITY reject TYPE TransportBearerRequestIndicator PRESENCE mandatory } |
  { ID id-TransportBearerID          CRITICALITY reject TYPE TransportBearerID          PRESENCE mandatory },
  ...
}

CommonTransportChannelResourcesRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- 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 } |
  -- R3-001617,CR106r2
  { ID id-C-RNTI          CRITICALITY ignore TYPE C-RNTI          PRESENCE optional  } |
  -- R3-001296,CR118

```

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```
{ ID id-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-
CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD PRESENCE optionalmandatory } |
{ ID id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-
ResourceRspFDD PRESENCE optional } |
-- R3-001574,CR117r2
{ ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD
PRESENCE optional } |
-- R3-001617,CR106r2
{ 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-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 },
...
}

-- R3-001296,CR118
FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizes PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD,
    iE-Extensions ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD-ExtIEs} }
OPTIONAL,
...
}

FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD ::= ProtocolIE-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 {
-- R3-001592,CR74r6
    fACH-PriorityIndicator FACH-PriorityIndicatorSchedulingPriorityIndicator,
    mAC-emMAC-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-CTCH-ResourceRspFDD,
    fACH-InitialWindowSize FACH-InitialWindowSize,
    iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
```



```

}

-- R3-001592,CR74r6
MAC-eMAC-c-sh-SDU-LengthList-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-eMAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD }}

MAC-eMAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD
    PRESENCE mandatory },
  ...
}

MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACeMACcshSDU-Length)) OF MAC-eMAC-c-sh-SDU-LengthItem-CTCH-
ResourceRspFDD

MAC-eMAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD ::= SEQUENCE {
  MAC-eMAC-c-sh-SDU-Length MAC-eMAC-c-sh-SDU-Length,
  iE-Extensions ProtocolExtensionContainer { {MAC-eMAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

MAC-eMAC-c-sh-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001296,CR118
FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspFDD ::= 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,
  multiplexingPosition MultiplexingPosition,
  sTTD-Indicator STTD-Indicator,
  priorityIndicatorAndInitialWindowSizeList PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD,
  iE-Extensions ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD ::= ProtocolIE-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 {
  -- R3-001592,CR74r6
  FACH-PriorityIndicator          FACH-PriorityIndicatorSchedulingPriorityIndicator,
  MAC-eMAC-c-sh-SDU-Lengths      MAC-eMAC-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-eMAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-eMAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD }}

MAC-eMAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD PRESENCE mandatory },
  ...
}

MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACeMACcshSDU-Length)) OF MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD

MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
  MAC-eMAC-c-sh-SDU-Length      MAC-eMAC-c-sh-SDU-Length,
  IE-Extensions                ProtocolExtensionContainer { {MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001574,CR117r2
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD ::= SEQUENCE {
  preambleSignatures          PreambleSignatures,
  PRACH-MinimumSpreadingFactor PRACH-MinimumSpreadingFactor,
  scramblingCodeNumber        ScramblingCodeNumber,
  punctureLimit                PunctureLimit,
  RACH-SubChannelNumbers      RACH-SubChannelNumbers,
  IE-Extensions                ProtocolExtensionContainer { { RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs } } OPTIONAL,
  ...
}

RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- R3-001617,CR106r2

```

```
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD
```

```
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD ::= SEQUENCE {
    rNC-ID RNC-ID,
    iE-Extensions ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}
```

```
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
--
-- *****
```

```
CommonTransportChannelResourcesResponseTDD ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesResponseTDD-IEs}},
    protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelResourcesResponseTDD-Extensions}} 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-CoupledToPRACH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-
    CoupledToPRACH-CTCH-ResourceRspTDD PRESENCE optionalmandatory } |
    { ID id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedOptionalS-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 } |
    { ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}
```

```
-- R3-001296,CR118
```

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```
FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizees      PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD,
    iE-Extensions                                ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD-ExtIEs} }
OPTIONAL,
    ...
}

FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD ::= ProtocolIE-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 ::= SEQUENCE {
    -- R3-001592,CR74r6
    fACH-PriorityIndicator          FACH-PriorityIndicatorSchedulingPriorityIndicator,
    mAC-eMAC-c-sh-SDU-Lengths       MAC-eMAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD,
    fACH-InitialWindowSize          FACH-InitialWindowSize,
    iE-Extensions                  ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-eMAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-eMAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD }}

MAC-eMAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
    ...
}

MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACeMACcshSDU-Length)) OF MAC-eMAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD

MAC-eMAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    mAC-eMAC-c-sh-SDU-Length          MAC-eMAC-c-sh-SDU-Length,
    iE-Extensions                  ProtocolExtensionContainer { {MAC-eMAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}
```

```

MAC-eMAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001296,CR118
FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    dl-TFCS                TFCS,
    secondaryCCPCHs        SecondaryCCPCHList-CTCH-ResourceRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForDRNCSelectedOptiona1S-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ SecondaryCCPCHListIEs-CTCH-ResourceRspTDD }}

SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD    CRITICALITY ignore    TYPE    SecondaryCCPCHListIE-CTCH-ResourceRspTDDPRESENCE mandatory    },
    ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF SecondaryCCPCHItem-CTCH-ResourceRspTDD

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    timeSlot                  TimeSlot,
    burstType                  BurstType,
    midambleShift             MidambleShift,
    tDD-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod          RepetitionPeriod,
    repetitionLength           RepetitionLength,
}

-- R3-001319,CR97
priorityIndicatorAndInitialWindowSizeList-option    PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD,
iE-Extensions          ProtocolExtensionContainer { {SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-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 {
  -- R3-001592,CR74r6
  FACH-PriorityIndicator          FACH-PriorityIndicatorSchedulingPriorityIndicator,
  MAC-eMAC-c-sh-SDU-Lengths      MAC-eMAC-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-eMAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container { { MAC-eMAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspTDD } }
```

```
MAC-eMAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD PRESENCE mandatory },
  ...
}
```

```
MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACeMACcshSDU-Length)) OF MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD
```

```
MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
  MAC-eMAC-c-sh-SDU-Length      MAC-eMAC-c-sh-SDU-Length,
  IE-Extensions                ProtocolExtensionContainer { {MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
MAC-eMAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- R3-001574,CR117r2
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
  tDD-ChannelisationCode      TDD-ChannelisationCode,
  timeSlot                    TimeSlot,
  BurstType                BurstType,
  pRACH-Midamble              PRACH-Midamble OPTIONAL,
  IE-Extensions                ProtocolExtensionContainer { { RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- R3-001617,CR106r2
```

```
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD
```

```
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD ::= SEQUENCE {
    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 {
    protocolIEs ProtocolIE-Container {{CommonTransportChannelResourcesFailure-IEs}},
    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 ::= {
    ...
}
```

```
-- R3-001608,CR126r2
-- *****
--
-- COMPRESSED MODE COMMAND
--
-- *****
```

```
CompressedModeCommand ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{CompressedModeCommand-IEs}},
    protocolExtensions ProtocolExtensionContainer {{CompressedModeCommand-Extensions}} OPTIONAL,
```

```

...
}

CompressedModeCommand-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE mandatory },
  ...
}

CompressedModeCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

*****
-- COMPRESSED MODE PREPARE
--
*****

CompressedModePrepare ::= SEQUENCE {
  protocolIEs ProtocolIE Container {{CompressedModePrepare-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModePrepare-Extensions}} OPTIONAL,
  ...
}

CompressedModePrepare-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationList-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationList-CompressedModePrep PRESENCE mandatory },
  ...
}

CM-PatternInformationList-CompressedModePrep ::= SEQUENCE (SIZE (1..maxNrOfCMpatterns)) OF ProtocolIE-Container-{{CM-PatternInformationItemIE-CompressedModePrep}}

CM-PatternInformationItemIE-CompressedModePrep RNSAP-PROTOCOL-IES ::= {
  { ID id-CM-PatternInformationItem-CompressedModePrep CRITICALITY reject TYPE CM-PatternInformationItem-CompressedModePrep PRESENCE mandatory },
  ...
}

CM-PatternInformationItem-CompressedModePrep ::= SEQUENCE {
  cFNOffset CFNOffset,
  tGP1 GapPeriod,
  tGP2 GapPeriod OPTIONAL,
  tGL TGL,
  tGD TGD,
  pD PD,
  ul-DL-CompressedModeSelection UL-DL-CompressedModeSelection,
  compressedModeMethod CompressedModeMethod,
  gapPositionMode GapPositionMode,
  sN TimeSlot OPTIONAL,
}

```



```


-- This IE is present if Cap position mode = 'flexible position'--
dl FrameType DL FrameType,
scramblingCodeChange ScramblingCodeChange OPTIONAL,
-- This IE is present if Compressed mode method = 'SF/2'--
powerControlMode PowerControlMode,
powerResumeMode PowerResumeMode,
ul-DeltaSIR UL-DeltaSIR,
ul-DeltaSIRAfter UL-DeltaSIRAfter,
iE-Extensions ProtocolExtensionContainer { { CM-PatternInformationItem-CompressedModePrep-ExtIEs } } OPTIONAL,
...
}

CM-PatternInformationItem-CompressedModePrep-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

CompressedModePrepare-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

*****
--
-- COMPRESSED MODE READY
--
*****

CompressedModeReady ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{CompressedModeReady-IEs}},
protocolExtensions ProtocolExtensionContainer {{CompressedModeReady-Extensions}} OPTIONAL,
...
}

CompressedModeReady-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

CompressedModeReady-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

*****
--
-- COMPRESSED MODE FAILURE
--
*****

CompressedModeFailure ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{CompressedModeFailure-IEs}},
protocolExtensions ProtocolExtensionContainer {{CompressedModeFailure-Extensions}} OPTIONAL,
...
}


```

```

CompressedModeFailure-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } |
  { ID id CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

CompressedModeFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-----
-- *****
--
-- COMPRESSED MODE COMMIT
--
-- *****

CompressedModeCommit ::= SEQUENCE {
  protocolIEs ProtocolIEContainer {{CompressedModeCommit-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModeCommit-Extensions}} OPTIONAL,
  ...
}

CompressedModeCommit-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id CFN CRITICALITY ignore TYPE CFN PRESENCE mandatory },
  ...
}

CompressedModeCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-----
-- *****
--
-- COMPRESSED MODE CANCEL
--
-- *****

CompressedModeCancel ::= SEQUENCE {
  protocolIEs ProtocolIEContainer {{CompressedModeCancel-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModeCancel-Extensions}} OPTIONAL,
  ...
}

CompressedModeCancel-IEs RNSAP-PROTOCOL-IES ::= {
  ...
}

CompressedModeCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--

```

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```
-- ERROR INDICATION
--
-- *****

ErrorIndication ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{ErrorIndication-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{ErrorIndication-Extensions}}
    OPTIONAL,
    ...
}

ErrorIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Cause          CRITICALITY ignore TYPE Cause          PRESENCE conditional
    -- At least either of Cause IE or Criticality IE shall be present -- } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE conditional
    -- 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 -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
| -- R3-001592,CR74r6
```

```

maxCodeNumComp-1,
maxNoTFCIGroups,
maxNoCodeGroups,
maxNrOfErrors,
maxRateMatching,
-- R3-001615,CR133r2
maxNrOfPoints,
maxNrOfTFCs,
maxNrOfTFs,
-- R3-001592,CR74r6
maxCTFC-1,
maxTFCI1Combs,
maxTFCI2Combs,
maxTFCI2Combs-1,
-- R3-001608,CR126r2
maxTGPS,
maxTTI-Count
FROM RNSAP-Constants

Criticality,
ProcedureCode,
ProtocolIE-ID,
TransactionID,
TriggeringMessage
FROM RNSAP-CommonDataTypes

ProtocolExtensionContainer{},
RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;

-- A

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN          CFN,
    transmission-Gap-Pattern-Sequence-Status    Transmission-Gap-Pattern-Sequence-Status-List OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSI          TGPSI,
        tGPRC          TGPRC,

```

```

    tGCFN          CFN,
    iE-Extensions  ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllocationRetentionPriority ::= FrameHandlingPriority

AllowedQueuingTime ::= INTEGER (0..60)
-- seconds

-- B

BetaCD ::= INTEGER (0..15)

BindingID ::= OCTET STRING (SIZE (1..4,...))

BLER ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER

-- R3-001362,CR105
Block-STTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2)
}

-- 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,
    ...
}

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,
    --R3-001210,CR77r2
    macrodiversity-combining-resources-not-possibleavailable,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    --R3-001219,CR95
    no-closed-loop-timing-adjustment-mode-configured,
    -- R3-001639,CR128r2
    measurement-temporarily-not-available,
    -- R3-001608,CR126r2
    invalid-CM-settings,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    ...
}

C-ID ::= INTEGER (0..65535)

CCTrCH-ID ::= INTEGER (0..15)

CellIndividualOffset ::= INTEGER (-20..20)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

```

```

-- R3-001608,CR126r2
CPNOffset ::= 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
}

-- R3-001593,CR89r5
Closedloop timing adjustment mode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

-- R3-001592,CR74r6
CodeNumber ::= INTEGER (0..maxCodeNumComp-1)

CodingRate ::= ENUMERATED {
    half,
    third
}

-- R3-001608,CR126r2
CompressedModeMethod ::= ENUMERATED {
    none,
    puncturing,
    half-SF,
    higher-Layer-Scheduling
}

CRC-Size          ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24
}

```

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```
CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          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 {
        criticalityResponse     Criticality,
        iE-ID                   ProtocolIE-ID,
        repetitionNumber        RepetitionNumber      OPTIONAL,
        iE-Extensions           ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        ...
    }

CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- R3-001592,CR74r6
CTFC ::= INTEGER (0..maxCTFC-1)

CN-CS-DomainIdentifier ::= SEQUENCE {
    pLMN-ID      PLMN-ID,
    lAC          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          RAC,
    iE-Extensions ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
}

CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

C-RNTI ::= INTEGER (0..65535)
```


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```
-- D

-- R3-001616,CR113r2
DCH-CombinationInd ::= INTEGER (0..255)

DCH-ID ::= INTEGER (0..255)

-- R3-001306,CR123
DedicatedMeasurementObjectType ::= ENUMERATED {
  r1,
  r1s,
  all-r1,
  all-r1s,
  ...
}

DedicatedMeasurementType ::= ENUMERATED {
  sir,
  sir-error,
  transmitted-code-power,
  rSCP,
  --R3-001131,CR70r1
  round-trip-time,
  -- R3-001483,CR102r1
  rx-timing-deviation,
  ...
}

DedicatedMeasurementValue ::= CHOICE {
  sIR-Value SIR-Value,
  sIR-ErrorValue SIR-Error-Value,
  transmittedCodePowerValue Transmitted-Code-Power-Value,
  rSCP RSCP-Value, -- TDD only
  --R3-001131,CR70r1
  roundTripTime Round-Trip-Time-Value, -- FDD only
  -- R3-001483,CR102r1
  rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only
  ...
}

-- R3-001608,CR126r2
DeltaSIR ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).

DiversityControlField ::= ENUMERATED {
  may,
  must,
  must-not
}

DiversityMode ::= ENUMERATED {
  none,
```

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```
sTTD,  
closedLoopModel,  
closedLoopMode2  
}  
  
DL-DPCH-SlotFormat ::= INTEGER (0..16)  
  
DL-SIRTarget ::= UL-SIR  
  
DL-Power ::= INTEGER (-350..150)  
-- 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,  
    ...  
}  
  
-- R3-001608,CR126r2  
Downlink-Compressed-Mode-Method ::= ENUMERATED {  
    puncturing,  
    sFdiv2,  
    higher-layer-scheduling  
}  
  
DPCH-ID ::= INTEGER (0..239)  
  
-- R3-001519,CR125r1  
DPCHConstantValue ::= INTEGER (-1032..1031)  
-- Unit dBm, Step 1dBm  
  
DRACControl ::= ENUMERATED {  
    requested,  
    not-requested  
}  
  
DRXCycleLengthCoefficient ::= INTEGER (2..12)  
  
D-FieldLength ::= ENUMERATED {  
    v1,  
    v2
```

```
}  
  
-- R3-001592,CR74r6  
DSCH-ID ::= INTEGER (0..255)  
  
-- E  
  
EventA ::= SEQUENCE {  
    measurementTreshold MeasurementThreshold,  
    measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,  
    ...  
}  
  
EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
EventB ::= SEQUENCE {  
    measurementTreshold MeasurementThreshold,  
    measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,  
    ...  
}  
  
EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
EventC ::= SEQUENCE {  
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,  
    measurementChangeTime MeasurementChangeTime,  
    iE-Extensions ProtocolExtensionContainer { {EventC-ExtIEs} } OPTIONAL,  
    ...  
}  
  
EventC-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
EventD ::= SEQUENCE {  
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,  
    measurementChangeTime MeasurementChangeTime,  
    iE-Extensions ProtocolExtensionContainer { {EventD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
EventD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
EventE ::= SEQUENCE {
```

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```
measurementThreshold1      MeasurementThreshold,
measurementThreshold2      MeasurementThreshold      OPTIONAL,
measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
reportPeriodicity         ReportPeriodicity      OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
...
}

EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

EventF ::= SEQUENCE {
measurementThreshold1      MeasurementThreshold,
measurementThreshold2      MeasurementThreshold      OPTIONAL,
measurementHysteresisTime  MeasurementHysteresisTime  OPTIONAL,
reportPeriodicity         ReportPeriodicity      OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
...
}

EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- F

| -- R3-001592,CR74r6
FACH-InitialWindowSize      ::= INTEGER { unlimited(255) } (0..255)
| -- Number of frames MAC-eMAC-c-sh SDUs.
-- 255 = Unlimited number of FACH data frames

FDD-DL-ChannelisationCodeNumber ::= INTEGER (0..255)

FDD-S-CCPCH-Offset         ::= INTEGER (0..149)

| -- R3-001282,CR114
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
step-size0-5,
step-size1,
| step-size1-5,
| step-size2,
...
}

| -- R3-001592,CR74r6
FACH-PriorityIndicatorSchedulingPriorityIndicator ::= INTEGER { lowest(0), highest(15) } (0..15)

| -- R3-001314,CR110
FirstRLS-Indicator ::= ENUMERATED {
first-RLS,
not-first-RLS,
...
}
```

```

}
FrameHandlingPriority ::= INTEGER { lowest(0), highest(15) } (0..15)

FrameOffset ::= INTEGER (0..255)
-- Frames

-- G

-- R3-001608,CR126r2
GapLength ::= INTEGER (1..14)

GapDuration ::= INTEGER (1..144)
GapPositionMode ::= ENUMERATED {
    fixed,
    flexible
}

GapPeriod ::= INTEGER (0..255)

-- R3-001615,CR133r2
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-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

GeographicalCoordinate ::= SEQUENCE {
    latitudeSign ENUMERATED { north, south },
    latitude INTEGER (0..8388607),
    longitude INTEGER (-8388608..8388607),
    iE-Extensions ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
    ...
}

GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

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```
}  
-- H  
-- I  
IB-SG-POS ::= INTEGER (0..4095)  
  
--R3-001139,CR76r1  
IB-SG-REP ::= INTEGER (16| 32| 64| 128| 256| 512| 1024| 2480)ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024,  
rep2048}  
  
IMSI ::= OCTET STRING (SIZE(3..8))  
  
-- R3-001608,CR126r2  
ITPPRM ::= ENUMERATED {  
mode-0,  
mode-1  
}  
  
-- R3-001570,CR90r3  
ISCP ::= INTEGER (0..91)  
-- According to maping in 25.225  
  
-- J  
-- K  
-- L  
  
LAC ::= OCTET STRING (SIZE (2)) --(EXCEPT ('0000'H|'FFFF'H))  
  
-- R3-001284,CR115  
LimitedPowerIncrease ::= ENUMERATED {  
used,  
not-used  
}  
  
L3-Information ::= BIT STRING  
  
-- M  
  
MaxNrOfUL-DPCHs ::= INTEGER (1..6)  
  
-- R3-001592,CR74r6  
MAC-c-sh-SDU-Length ::= INTEGER (1..5000)  
MAC-c-SDU-Length ::= INTEGER (1..5000)  
  
MaximumAllowedULTxPower ::= INTEGER (-50..33)  
  
-- R3-001592,CR74r6  
MaxTFCIvalue ::= INTEGER (1..1023)  
  
-- R3-001639,CR128r2
```

```

MeasurementAvailabilityIndicator ::= ENUMERATED {+
    measurementAvailable,
    measurementnotAvailable
}+

--R3-001133,CR69r1
MeasurementFilterCoefficient ::= INTEGER (1..256) 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)

-- R3-001592,CR74r6
Multi-code-info ::= INTEGER (1..16)

MultipleURAsIndicator ::= ENUMERATED {
    multiple-URAs-exist,
    single-URA-exists
}

-- R3-001612,CR108r2
ScaledMaxAdjustmentPeriod ::= INTEGER(1..30050)
-- Unit FrameMaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- Unit SlotMaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

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 RSCP-Value-IncrDecrThres,
    --R3-001131,CR70r1
    round-trip-time Round-Trip-Time-IncrDecrThres,
    ...
}

MeasurementThreshold ::= CHOICE {
    sir SIR-Value,

```

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```
    sir-error                SIR-Error-Value,
    transmitted-code-power   Transmitted-Code-Power-Value,
    rscp                     RSCP-Value,
--R3-001131,CR70r1
round-trip-time           Round-Trip-Time-Value,
-- R3-001483,CR102r1
rx-timing-deviation     Rx-Timing-Deviation-Value,
    ...
}

MidambleShift              ::= INTEGER (0..15)

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
}

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

-- N

-- R3-001470,CR84r3
NrOfDLchannelisationcodes ::= INTEGER (1..8)

NrOfTransportBlocks       ::= INTEGER (0..4095)

-- O

-- P

-- R3-001608,CR126r2
PD ::= INTEGER (0..2047, ...)

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

-- R3-001284,CR115
```



```

SCH-TimeSlot ::= INTEGER (0..6)

-- R3-001592,CR74r6
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 ::= SEQUENCE (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
SEQUENCE {
    spreadingFactor SpreadingFactor,
    multi-code-info Multi-code-info,
    codeNumber CodeNumber,
    ...
}

Periodic ::= SEQUENCE {
    reportPeriodicity ReportPeriodicity,
    iE-Extensions ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    ...
}

Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
PLMN-ID ::= OCTET STRING (SIZE(3))

PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}

-- R3-001608,CR126r2
PowerControlMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

PowerOffset                ::= INTEGER (0..24)

-- R3-001608,CR126r2
PowerResumeMode ::= ENUMERATED {
    v0,
    v1,
    ...
}

-- R3-001574,CR117r2
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)
-- R3-001483,CR102r1
-- According to mapping in [14]25-225

```

```
PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

SyncCase ::= ENUMERATED {
    case1,
    case2
}

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100

-- Q
-- R3-001564,CR103r2
QE-Selector ::= ENUMERATED {
    selected-DCH,
    non-selected-DCH
}

-- R
RAC ::= OCTET STRING (SIZE(1))

-- R3-001574,CR117r2
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)

-- R3-001592,CR74r6
RB-Identity ::= INTEGER (0..15)

RefTFNumber ::= INTEGER (0..15)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64
}

RepetitionNumber ::= INTEGER (0..255)

ReportCharacteristics ::= CHOICE {
```

```

onDemand          NULL,
periodic          Periodic,
eventA            EventA,
eventB            EventB,
eventC            EventC,
eventD            EventD,
eventE            EventE,
eventF            EventF,
...
}

ReportPeriodicity ::= CHOICE {
  ten-msec          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
  min              INTEGER (1..60)
  -- Unit min, Step 1min
}

-- R3-001284,CR115
LimitedPowerIncrease ::= ENUMERATED {
  used,
  not-used
}

RL-ID              ::= INTEGER (0..31)

RL-Set-ID          ::= INTEGER (0..31)

RNC-ID             ::= INTEGER (0..4095)

-- R3-001608,CR126r2
RPM               ::= ENUMERATED {
  mode-0,
  mode-1
}

--R3-001131,CR70r1
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)
-- R3-001483,CR102r1
-- According to mapping in [14]25.225

RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

-- R3-001483,CR102r1
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 ::= {
    ...
}

-- R3-001284,CR115
SCH-TimeSlot ::= INTEGER (0..6)

-- R3-001608,CR126r2
ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change
}

-- R3-001574,CR117r2
ScramblingCodeNumber ::= INTEGER (0..15)

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

SN ::= TimeSlot

S-FieldLength ::= ENUMERATED {
    v1,
    v2
}

-- R3-001592,CR74r6
SpreadingFactor ::= INTEGER (4 | 8 | 16 | 32 | 64 | 128 | 256)

S-RNTI ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
```

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```
SSDT-CellID ::= ENUMERATED {
    a,
    b,
    c,
    d,
    e,
    f,
    g,
    h
}

SSDT-CellID-Length ::= ENUMERATED {
    short,
    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
}

-- T

TDD-ChannelisationCode ::= ENUMERATED {
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
}
```

```

    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    ...
}

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    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|715..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC ::= INTEGER (0|1..63)

```

```

-- 0 = infinity

TGPSI ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

ToAWE ::= INTEGER (0..2559)

ToAWS ::= INTEGER (0..1279)

-- R3-001608,CR126r2
TGD ::= INTEGER (0..3839)

--R3-001139,CR76r1
TGL ::= INTEGER (3|4|7|10|14) ENUMERATED {
    v3,
    v4,
    v7,
    v10,
    v14
}

-- R3-001608,CR126r2
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSI TGPSI,
        tGSN TGSN,
        tGL1 GapLength,
        tGL2 GapLength OPTIONAL,
        tGD TGD,
        tGPL1 GapDuration,
        tGPL2 GapDuration OPTIONAL,
        rPM RPM,
        iTPPRM ITPPRM,
        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,
    iE-Extensions   ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Transmission-Gap-Pattern-Sequence-Information-Response ::= ENUMERATED{
    code-change,
    nocode-change
}

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
}

--R3-001198,CR82r1
TransportBlockSize          ::= INTEGER (10..5000)
-- Unit is bits

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE {
        betaC      BetaCD,
        betaD      BetaCD,
        refTFCNumber RefTFCNumber OPTIONAL
    },
    refTFCNumber      RefTFCNumber
}

-- R3-001592,CR74r6

```

```

TFCS ::= SEQUENCE {
    tFCSvalues CHOICE {
        no-Split-in-TFCI TFCS-TFCSList,
        split-in-TFCI SEQUENCE {
            transportFormatCombination-DCH TFCS-DCHList,
            signallingMethod CHOICE {
                tFCI-Range TFCS-MappingOnDSCHList,
                explicit TFCS-DSCHList
            }
        }
    },
    iE-Extensions ProtocolExtensionContainer { { TFCS-ExtIEs } } OPTIONAL,
    ...
}

TFCS-ExtIEs RNSAPNBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
    SEQUENCE {
        cTFC TFCS-CTFC,
        tFC-Beta TransportFormatCombination-Beta OPTIONAL,
        iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } } OPTIONAL,
        ...
    }

TFCS-TFCSList-ExtIEs RNSAPNBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC ::= INTEGER (0..maxCTFC)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCICombs)) OF
    SEQUENCE {
        cTFC TFCS-CTFC,
        iE-Extensions ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } } OPTIONAL,
        ...
    }

TFCS-DCHList-ExtIEs RNSAPNBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoOfTFCIGroups)) OF
    SEQUENCE {
        maxTFCI-field2-Value TFCS-MaxTFCI-field2-Value,
        cTFC-DSCH TFCS-CTFC,
        iE-Extensions ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs } } OPTIONAL,
        ...
    }

TFCS-MappingOnDSCHList-ExtIEs RNSAPNBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)

TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
    SEQUENCE {
        cTFC-DSCH          TFC-CTFC,
        iE-Extensions     ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs } } OPTIONAL,
        ...
    }

TFCS-DSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEQUENCE {
        cTFC              CTFC,
        tFC-Beta          TransportFormatCombination-Beta OPTIONAL,
        iE-Extensions     ProtocolExtensionContainer { {TFCS-ExtIEs} } OPTIONAL,
        ...
    }

TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet ::= SEQUENCE {
    dynamicParts          TransportFormatSet-DynamicPartList,
    semi-staticPart      TransportFormatSet-Semi-staticPart,
    iE-Extensions        ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
    SEQUENCE {
        nrOfTransportBlocks      NrOfTransportBlocks,
        transportBlockSize       TransportBlockSize OPTIONAL
        -- This IE is only present if nrOfTransportBlocks is greater than 0 --,
        mode                      TransportFormatSet-ModeDP,
        iE-Extensions             ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
        ...
    }

TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ModeDP ::= CHOICE {

```

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```
tdd          TransmissionTimeIntervalList,
-- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent --
--R3-001137,CR75r1
notApplicable      NULL,
...
}

TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
SEQUENCE {
    transmissionTimeInterval      TransmissionTimeInterval,
    iE-Extensions                 ProtocolExtensionContainer { {TransmissionTimeInterval-ExtIEs} } OPTIONAL,
    ...
}

TransmissionTimeInterval-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,...)

-- R3-001592,CR74r6
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' --,
    rateMatchingAttribute         RateMatchingAttribute,
    cRC-Size                      CRC-Size,
    mode                          TransportFormatSet-ModeSSP,
    iE-Extensions                 ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
    tdd                          SecondInterleavingMode,
    --R3-001137,CR75r1
    notApplicable              NULL,
    ...
}
```

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```
SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeslot-related,
    ...
}

TransportLayerAddress      ::= BIT STRING (SIZE(1..160, ...))

TrCH-SrcStatisticsDescr   ::= ENUMERATED {
    speech,
    rRC,
    unknown,
    ...
}

TxDiversityIndicator      ::= ENUMERATED {
    true,
    false
}

-- U

UARFCN                     ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105
```

```
-- R3-001608,CR126r2
UL-DL-CompressedModeSelection ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling
}

UL-DeltaSIR ::= INTEGER (-60..100)
-- The UL-Delta-SIR gives the UL-Delta-SIR in number of 0.1 dB steps.
-- E.g. Value 100 means 10 dB
-- Unit dB. Step 0.1 dB.

UL-DeltaSIRAfter ::= INTEGER (-60..100)
-- The UL-Delat-SIR-After gives the UL-Delta-SIR-After in number of 0.1 dB steps.
-- E.g. Value 100 means 10 dB
```

```

Unit dB. Step 0.1 dB.

UL-SIR ::= INTEGER (-82..173)
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.

UC-ID ::= SEQUENCE {
    rNC-ID          RNC-ID,
    c-ID            C-ID,
    iE-Extensions  ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    ...
}

UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent
}

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.

UL-ScramblingCode ::= SEQUENCE {
    ul-ScramblingCodeNumber    UL-ScramblingCodeNumber,
    ul-ScramblingCodeLength    UL-ScramblingCodeLength,
    iE-Extensions              ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
}

UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

URA-ID ::= INTEGER (0..65535)

R3-001592,CR74r6
USCH-ID ::= INTEGER (0..255)

```

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```
-- V
-- W
-- X
-- Y
-- Z

END

--9.3.5 Common Definitions
-- *****
--
-- Common definitions
--
-- *****

RNSAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

Presence         ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID    ::= CHOICE {
    local          INTEGER (0..65535),
    global         OBJECT IDENTIFIER
}

ProcedureCode   ::= INTEGER (0..255)

ProcedureID ::= SEQUENCE {
    procedureCode   ProcedureCode,
    ddMode          ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID   ::= INTEGER (0..65535)

-- R3-001142,CR72r1
TransactionID ::= INTEGER (0..65535)CHOICE {
    sShortTransActionId INTEGER (0..127),
    longTransActionId   INTEGER (0..32767)
}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }

END

--9.3.6 Constant Definitions
-- *****
--
```

```

-- Constant definitions
--
-- *****

RNSAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD          INTEGER ::= 1
id-commonTransportChannelResourcesRelease                INTEGER ::= 2
-- R3-001608, CR126r2
id-compressedModeCancellationFDD                       INTEGER ::= 3
id-compressedModeCommandFDD                             INTEGER ::= 4
id-compressedModePrepareFDD                           INTEGER ::= 5
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-uplinkSignallingTransfer                             INTEGER ::= 26

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs          INTEGER ::= 65535
maxProtocolExtensions  INTEGER ::= 65535
maxProtocolIEs         INTEGER ::= 65535

```



```

-- *****
--
-- Lists
--
-- *****

-- R3-001592,CR74r6
maxCodeNumComp-1          INTEGER ::= 255
maxRateMatching           INTEGER ::= 256+0
maxNrOfMACCeshSDULength INTEGER ::= 16
maxNoCodeGroups           INTEGER ::= 256
maxNoOfDSCHs              INTEGER ::= 10
maxNoOfFRB                INTEGER ::= 32
maxNoOfUSCHs              INTEGER ::= 10
maxNoTFCIGroups           INTEGER ::= 256
maxNrOfTFCs                INTEGER ::= 1024+0
maxNrOfTFs                 INTEGER ::= 32+0
--R3-001193,CR92
maxNrOfCCTrCHs            INTEGER ::= 16+0
--R3-001126,CR88
maxNrOfDCHs                INTEGER ::= 128+0
maxNrOfDL-Codes           INTEGER ::= 8+0
--R3-001193,CR92
maxNrOfDPCHs              INTEGER ::= 240+0
--R3-001126,CR88
maxNrOfErrors              INTEGER ::= 256+0
maxNrOfMACCeshSDU-Length  INTEGER ::= 168+0
-- R3-001615,CR133r2
maxNrOfPoints             INTEGER ::= 15
maxNrOfRRLs                INTEGER ::= 16+0
maxNrOfRRLSets            INTEGER ::= 1+0maxNrOfRRLs
maxNrOfRRLs-1             INTEGER ::= 15 -- maxNrOfRRLs - 1+0
maxNrOfRRLs-2             INTEGER ::= 14 -- maxNrOfRRLs - 2+0
maxNrOfSCCPCHs            INTEGER ::= 10
maxNrOfULTs                INTEGER ::= 15
-- R3-001570,CR90r3
maxNrOfDLTs                INTEGER ::= 15
-- R3-001608,CR126r2
maxNrOfCMpatterns      INTEGER ::= 8
-- R3-001617,CR106r2
maxRNCinURA-1            INTEGER ::= 15+6+0
-- R3-001592,CR74r6
maxTTI-Count               INTEGER ::= 4+0
maxCTFC-1                  INTEGER ::= 16777215+0
maxNrOfNeighbouringRNCs   INTEGER ::= 10
--R3-001126,CR88
maxNrOfFDDNeighboursPerRNC INTEGER ::= 256+0
maxNrOfTDDNeighboursPerRNC INTEGER ::= 256+0
maxFACHCountPlus1         INTEGER ::= 10
maxIBSEG                   INTEGER ::= 16
-- R3-001592,CR74r6
maxTFCIICombs              INTEGER ::= 512

```

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```
maxTFCI2Combs INTEGER ::= 1024
maxTFCI2Combs-1 INTEGER ::= 1023
-- R3-001608,CR126r2
maxTGPS INTEGER ::= 6

-- *****
--
-- IEs
--
-- *****

-- R3-001541,CR116r1
id-AllRLItem-DM-Rprt INTEGER ::= 0
id-AllRLItem-DM-Rsp INTEGER ::= 1
id-AllRL-SetItem-DM-Rprt INTEGER ::= 2
id-AllRL-SetItem-DM-Rsp INTEGER ::= 3
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-CellItem-PagingRqst INTEGER ::= 12
-- R3-001608,CR126r2
id-CM-PatternInformationItem-CompressedModePrep INTEGER ::= 13
id-CM-PatternInformationList-CompressedModePrep INTEGER ::= 14
id-CombiningItem-RL-AdditionFailureFDD INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD INTEGER ::= 19
id-CriticalityDiagnostics INTEGER ::= 20
id-D-RNTI INTEGER ::= 21
id-D-RNTI-ReleaseIndication INTEGER ::= 22
-- R3-001205,CR79r1
id-DCH-AddListIE-RL-ReconfReadyFDD INTEGER ::= 23
id-DCH-AddListIE-RL-ReconfReadyTDD INTEGER ::= 24
id-DCH-AddListIE-RL-ReconfRsp INTEGER ::= 25
id-DCH-AddList-RL-ReconfPrepFDD INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD INTEGER ::= 35
-- R3-001205,CR79r1
id-DCH-ModifyListIE-RL-ReconfReadyFDD INTEGER ::= 36
```

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```
id-DCH-ModifyListIE-RL-ReconfReadyTDD INTEGER ::= 37
id-DCH-ModifyListIE-RL-ReconfRsp INTEGER ::= 38
id-DCH-ModifyList-RL-ReconfPrepFDD INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD INTEGER ::= 43
-- R3-001351,CR87r1
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD INTEGER ::= 45
-- R3-001351,CR87r1
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD INTEGER ::= 50
-- R3-001351,CR87r1
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD INTEGER ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD INTEGER ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD INTEGER ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD INTEGER ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD INTEGER ::= 55
id-DL-CodeInformationListIE-RL-AdditionRspFDD INTEGER ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD INTEGER ::= 57
id-DL-CodeInformationListIE-RL-SetupFailureFDD INTEGER ::= 58
id-DL-DPCH-Information-RL-ReconfPrepFDD INTEGER ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD INTEGER ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD INTEGER ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD INTEGER ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD INTEGER ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD INTEGER ::= 64
-- R3-001351,CR87r1
id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD INTEGER ::= 65
id-DL-SIRTarget INTEGER ::= 66
id-DLReferencePower INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst INTEGER ::= 69
id-DRXCycleLengthCoefficient INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp INTEGER ::= 73
id-DedicatedMeasurementType INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD INTEGER ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD INTEGER ::= 79
-- R3-001451,CR135
id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD INTEGER ::= 80
id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD INTEGER ::= 81
id-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD INTEGER ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD INTEGER ::= 83
id-IMSI INTEGER ::= 84
```

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```
id-L3-Information
-- R3-001592,CR74r6
id-MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD          INTEGER ::= 85
id-MAC-eMAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD          INTEGER ::= 86
id-MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD    INTEGER ::= 87
id-MAC-eMAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD    INTEGER ::= 88
-- R3-001612,CR108r2
id-MaxAdjustmentPeriod                                          INTEGER ::= 89
id-MaxAdjustmentStep                                            INTEGER ::= 90
id-MeasurementFilterCoefficient                                 INTEGER ::= 91
id-MeasurementID                                              INTEGER ::= 92
id-MultipleURAsIndicator                                       INTEGER ::= 93
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD         INTEGER ::= 94
id-Neighbouring-CellInformationItem-RL-SetupRsp                INTEGER ::= 95
id-NonCombiningItem-RL-AdditionFailureFDD                     INTEGER ::= 96
id-NonCombiningItem-RL-AdditionRspFDD                          INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspTDD                          INTEGER ::= 98
-- R3-001385,CR137
id-NonCombiningOrFirstRLIENotPresenItem-RL-SetupFailureFDD    INTEGER ::= 100
id-NonCombiningOrFirstRLIENotPresenItem-RL-SetupRspFDD          INTEGER ::= 101
id-PagingArea-PagingRqst                                       INTEGER ::= 102
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD  INTEGER ::= 103
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD  INTEGER ::= 104
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD  INTEGER ::= 105
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD  INTEGER ::= 106
id-PowerAdjustmentType                                         INTEGER ::= 107
id-ProcedureScope-DL-PC-Rqst                                    INTEGER ::= 108
id-RANAP-RelocationInformation                                  INTEGER ::= 109
id-RL-Information-PhyChReconfRqstFDD                            INTEGER ::= 110
id-RL-Information-PhyChReconfRqstTDD                            INTEGER ::= 111
id-RL-Information-RL-AdditionRqstFDD                            INTEGER ::= 112
id-RL-Information-RL-AdditionRqstTDD                            INTEGER ::= 113
id-RL-Information-RL-DeletionRqst                               INTEGER ::= 114
id-RL-Information-RL-FailureInd                                 INTEGER ::= 115
id-RL-Information-RL-ReconfPrepFDD                              INTEGER ::= 116
id-RL-Information-RL-RestoreInd                                 INTEGER ::= 117
id-RL-Information-RL-SetupRqstFDD                               INTEGER ::= 118
id-RL-Information-RL-SetupRqstTDD                               INTEGER ::= 119
id-RL-InformationItem-DM-Rprt                                   INTEGER ::= 120
id-RL-InformationItem-DM-Rqst                                   INTEGER ::= 121
id-RL-InformationItem-DM-Rsp                                    INTEGER ::= 122
id-RL-InformationItem-RL-SetupRqstFDD                           INTEGER ::= 123
id-RL-InformationList-RL-AdditionRqstFDD                        INTEGER ::= 124
id-RL-InformationList-RL-DeletionRqst                           INTEGER ::= 125
id-RL-InformationList-RL-ReconfPrepFDD                           INTEGER ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD                     INTEGER ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD                     INTEGER ::= 128
id-RL-InformationResponse-RL-SetupRspTDD                       INTEGER ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD                 INTEGER ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD                 INTEGER ::= 131
id-RL-InformationResponseItem-RL-ReconfRsp                     INTEGER ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD                     INTEGER ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD                 INTEGER ::= 134
```

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```
id-RL-InformationResponseList-RL-ReconfReadyFDD          INTEGER ::= 135
id-RL-InformationResponseList-RL-ReconfRsp              INTEGER ::= 136
id-RL-InformationResponseList-RL-SetupRspFDD           INTEGER ::= 137
id-RLItem-DM-Rprt                                       INTEGER ::= 138
id-RLItem-DM-Rqst                                       INTEGER ::= 139
id-RLItem-DM-Rsp                                        INTEGER ::= 140
id-RL-ReconfigurationFailure-RL-ReconfFail             INTEGER ::= 141
-- R3-001451,CR135
id-RL-ReconfigurationFailureList-RL-ReconfFail       INTEGER ::= 142
id-RL-Set-InformationItem-DM-Rprt                       INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst                       INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp                       INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd                    INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd                    INTEGER ::= 147
id-RL-SetItem-DM-Rprt                                  INTEGER ::= 148
id-RL-SetItem-DM-Rqst                                  INTEGER ::= 149
id-RL-SetItem-DM-Rsp                                    INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind     INTEGER ::= 151
id-ReportCharacteristics                               INTEGER ::= 152
id-Reporting-Object-RL-FailureInd                      INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd                      INTEGER ::= 154
id-S-RNTI                                               INTEGER ::= 155
id-SAI                                                  INTEGER ::= 156
id-SRNC-ID                                              INTEGER ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD          INTEGER ::= 158
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD INTEGER ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD INTEGER ::= 162
id-TransportBearerID                                    INTEGER ::= 163
id-TransportBearerRequestIndicator                     INTEGER ::= 164
id-TransportLayerAddress                               INTEGER ::= 165
id-UC-ID                                                INTEGER ::= 166
-- R3-001351,CR87r1
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD           INTEGER ::= 167
id-UL-CCTrCH-InformationAddItem-RL-ReconfRqstTDD      INTEGER ::= 168
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD      INTEGER ::= 169
id-UL-CCTrCH-InformationAddList-RL-ReconfRqstTDD      INTEGER ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD          INTEGER ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD          INTEGER ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD    INTEGER ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD      INTEGER ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD     INTEGER ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD        INTEGER ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD              INTEGER ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD               INTEGER ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD                INTEGER ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD        INTEGER ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD         INTEGER ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD             INTEGER ::= 182
-- R3-001351,CR87r1
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD    INTEGER ::= 183
id-UL-SIRTarget                                        INTEGER ::= 184
```

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id-URA-ID	INTEGER ::= 185
id-URAIItem-PagingRqst	INTEGER ::= 186
-- R3-001451,CR135	
id-UnsuccessfulRL-InformationResponse	INTEGER ::= 187
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	INTEGER ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 192
-- R3-001608,CR126r2	
id-Active-Pattern-Sequence-Information	INTEGER ::= 193
-- R3-001612,CR108r2	
id-AdjustmentRatio	INTEGER ::= 194
-- R3-001541,CR116r1	
id-All-RLItem-DM-Rqst	INTEGER ::= 195
id-All-RLItem-Set-DM-Rqst	INTEGER ::= 196
-- R3-001451,CR135	
id-CauseLevel-RL-AdditionFailureFDD	INTEGER ::= 197
id-CauseLevel-RL-AdditionFailureTDD	INTEGER ::= 198
id-CauseLevel-RL-ReconfFailure	INTEGER ::= 199
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 200
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 201
-- R3-001205,CR79r1	
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD	INTEGER ::= 202
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD	INTEGER ::= 203
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 204
-- R3-001351,CR87r1	
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	INTEGER ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	INTEGER ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 207
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 209
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 210
-- R3-001608,CR126r2	
id-DL-CodeInformationListIE-RL-ReconfResp	INTEGER ::= 211
-- R3-001351,CR87r1	
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	INTEGER ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 214
-- R3-001592,CR74r6	
id-DSCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 215
id-DSCH-Add-RL-ReconfPrepFDD	INTEGER ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD	INTEGER ::= 218
id-DSCH-InformationItem-RL-SetupRqstFDD	INTEGER ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD	INTEGER ::= 221
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 222
id-DSCH-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 223
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD	INTEGER ::= 224
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD	INTEGER ::= 225
id-DSCH-Information-RL-SetupRqstFDD	INTEGER ::= 226
id-DSCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 227

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id-DSCH-Modify-RL-ReconfPrepFDD	INTEGER ::= 228
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD	INTEGER ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	INTEGER ::= 230
-- R3-001615,CR133r2	
id-GA-AccessPointPosition	INTEGER ::= 231
id-GA-Cell	INTEGER ::= 232
-- R3-001451,CR135	
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
-- R3-001639,CR128r2	
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 238
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 239
-- R3-001541,CR116r1	
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD	INTEGER ::= 240
id-Neighbouring-CellInformationItem-RL-AdditionRsp	INTEGER ::= 241
-- R3-001574,CR117r2	
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD	INTEGER ::= 242
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD	INTEGER ::= 243
-- R3-001321,CR98	
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
-- R3-001451,CR135	
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
-- R3-001617,CR106r2	
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD	INTEGER ::= 253
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD	INTEGER ::= 254
-- R3-001608,CR126r2	
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= 255
-- R3-001351,CR87r1	
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	INTEGER ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	INTEGER ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD	INTEGER ::= 258
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 260
id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD	INTEGER ::= 261
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD	INTEGER ::= 262
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD	INTEGER ::= 263
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	INTEGER ::= 264
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 265
-- R3-001451,CR135	
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD	INTEGER ::= 266
-- R3-001592,CR74r6	
id-USCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 267
id-USCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 268

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<u>id-USCH-InformationListIE-RL-AdditionRspTDD</u>	<u>INTEGER ::= 269</u>
<u>id-USCH-InformationListIEs-RL-SetupRspTDD</u>	<u>INTEGER ::= 270</u>
<u>id-USCH-InformationList-RL-SetupRgstTDD</u>	<u>INTEGER ::= 271</u>
<u>id-USCH-ModifyList-RL-ReconfPrepTDD</u>	<u>INTEGER ::= 272</u>
<u>id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD</u>	<u>INTEGER ::= 273</u>

END

--9.3.7 Container Definitions

-- *****
--
-- Container definitions
--
-- *****

RNSAP-Containers -- { object identifier to be allocated }--
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 &id

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```
CRITICALITY      &criticality
TYPE             &Value
PRESENCE        &presence
}

-- *****
--
-- Class Definition for Protocol IEs
--
-- *****

RNSAP-PROTOCOL-IES-PAIR ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &firstCriticality    Criticality,
    &FirstValue,
    &secondCriticality    Criticality,
    &SecondValue,
    &presence          Presence
}
WITH SYNTAX {
    ID          &id
    FIRST CRITICALITY    &firstCriticality
    FIRST TYPE          &FirstValue
    SECOND CRITICALITY    &secondCriticality
    SECOND TYPE          &SecondValue
    PRESENCE          &presence
}

-- *****
--
-- Class Definition for Protocol Extensions
--
-- *****

RNSAP-PROTOCOL-EXTENSION ::= CLASS {
    &id          ProtocolExtensionID    UNIQUE,
    &criticality    Criticality,
    &Extension,
    &presence          Presence
}
WITH SYNTAX {
    ID          &id
    CRITICALITY    &criticality
    EXTENSION      &Extension
    PRESENCE      &presence
}

-- *****
--
-- Class Definition for Private IEs
--
-- *****
```

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```
RNSAP-PRIVATE-IES ::= CLASS {
    &id          PrivateIE-ID,
    &criticality Criticality,
    &Value,
    &presence    Presence
}
WITH SYNTAX {
    ID          &id
    CRITICALITY &criticality
    TYPE        &Value
    PRESENCE    &presence
}

-- *****
--
-- Container for Protocol IEs
--
-- *****

ProtocolIE-Container {RNSAP-PROTOCOL-IES : IEsSetParam} ::=
    SEQUENCE (SIZE (0..maxProtocolIEs)) OF
    ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {RNSAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
    id          RNSAP-PROTOCOL-IES.&id          ({IEsSetParam}),
    criticality RNSAP-PROTOCOL-IES.&criticality  ({IEsSetParam}@id),
    value       RNSAP-PROTOCOL-IES.&Value       ({IEsSetParam}@id)
}

-- *****
--
-- Container for Protocol IE Pairs
--
-- *****

ProtocolIE-ContainerPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
    SEQUENCE (SIZE (0..maxProtocolIEs)) OF
    ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
    id          RNSAP-PROTOCOL-IES-PAIR.&id          ({IEsSetParam}),
    firstCriticality RNSAP-PROTOCOL-IES-PAIR.&firstCriticality  ({IEsSetParam}@id),
    firstValue     RNSAP-PROTOCOL-IES-PAIR.&FirstValue         ({IEsSetParam}@id),
    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 {
    id                RNSAP-PROTOCOL-EXTENSION.&id                ({ExtensionSetParam}),
    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} ::= SEQUENCE {
    id                RNSAP-PRIVATE-IES.&id                ({IEsSetParam}),
    criticality        RNSAP-PRIVATE-IES.&criticality        ({IEsSetParam}@id}),
    value             RNSAP-PRIVATE-IES.&Value             ({IEsSetParam}@id)
}

END
```