

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

**TSGRP#8(00)0242**

**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
R3-001298	25.423	119		Clarification of notations used in RNSAP	D	agreed	3.1.0	3.2.0
R3-001302	25.423	121		Crossing signalling between the Physical	F	agreed	3.1.0	3.2.0
R3-001303	25.423	122		Mismatch between measurement type and	F	agreed	3.1.0	3.2.0
R3-001306	25.423	123		Removal of the DedicatedMeasurement	D	agreed	3.1.0	3.2.0
R3-001312	25.423	109		RL Set info in Dedicated measurement initiation	F	agreed	3.1.0	3.2.0
R3-001314	25.423	110		Introduction of first RLS indicator	B	agreed	3.1.0	3.2.0
R3-001319	25.423	097		Editorial correction for RNSAP	D	agreed	3.1.0	3.2.0
R3-001321	25.423	098		Addition criticality information to the	F	agreed	3.1.0	3.2.0
R3-001337	25.423	099		Correction of tabular format	D	agreed	3.1.0	3.2.0
R3-001351	25.423	087	1	Clarification of Radio Link Reconfiguration with	F	agreed	3.1.0	3.2.0
R3-001359	25.423	104		Measurement periods and accuracy for TDD	F	agreed	3.1.0	3.2.0
R3-001362	25.423	105		Add Block STTD Indicator to TDD Neighbouring Cell	F	agreed	3.1.0	3.2.0

R3-001381	25.423	124		Correction of STTD Indicator IE	F	agreed	3.1.0	3.2.0
R3-001385	25.423	137		Alignment of Diversity Indication IE between	F	agreed	3.1.0	3.2.0
R3-001386	25.423	139		Rapporteur update to RNSAP symbol update	D	agreed	3.1.0	3.2.0
R3-001398	25.423	129		Tx diversity indicator in neighboring cell	F	agreed	3.1.0	3.2.0
R3-001419	25.423	130		Editorial corrections for RNSAP (IEs)	D	agreed	3.1.0	3.2.0
R3-001431	25.423	131		Definition of the Relation between the Tabular	F	agreed	3.1.0	3.2.0
R3-001451	25.423	135		Updated CR on cause values on msg and RL	F	agreed	3.1.0	3.2.0
R3-001465	25.423	132	1	Clarification to RNSAP Message Syntax	F	agreed	3.1.0	3.2.0

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.423 CR 87r1</b>		Current Version: <b>3.1.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>	For approval <input checked="" type="checkbox"/> For information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/>	(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:** **Clarification of Radio Link Reconfiguration with CCTrCH and DPCH deletion in TDD**

**Work item:**

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

**Reason for change:** The current Radio Reconfiguration procedures are not clear enough involving the deletion of CCTrCH's or DPCH's

Revision 1 – Various changes in ASN.1 for syntax errors and matching of tabular format, highlighted in yellow.

**Clauses affected:** **8.3.4.2, 8.3.7.2, 9.1.11.2, 9.1.12.2, 9.1.16.2, 9.3, 9.6**

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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**Other comments:**

## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

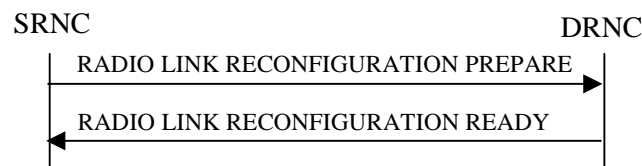
### 8.3.4.1 General

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 1: 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.]

[~~FDD - The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of ~~{TDD—the CCTrCH of}~~ the new configuration.]~~

[~~FDD - The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of ~~{TDD—the CCTrCH of}~~ the new configuration.]~~

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

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

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

~~[TDD –The DRNC shall include all of the DPCH that have been modified and any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE which have been modified in the DPCH to be modified in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]~~

#### **[TDD – UL/DL CCTrCH Addition]**

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

#### **[TDD – UL/DL CCTrCH Deletion]**

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

#### **SSDT Activation/Deactivation:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS 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.

## 8.3.7 Unsynchronised Radio Link Reconfiguration

### 8.3.7.1 General

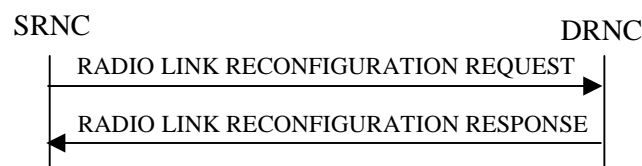
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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 2: 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:**

[FDD - 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 ~~[FDD - the CCTrCH of]~~ the new configuration.]

[FDD - 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 ~~[FDD - the CCTrCH of]~~ the new configuration.]

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

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

**[TDD – UL/DL CCTrCH Deletion]**

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

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

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

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.

## 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
<b>UL DPCH Information</b>		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				–	
<b>DL DPCH Information</b>		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				–	
<b>DCHs to Modify</b>		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				–	
<b>DCHs to Add</b>		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				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
<b>RL Information</b>		<i>0..&lt;maxnoof RLs&gt;</i>			EACH	reject
>RL ID	M				–	
>SSDT Indication	O				–	
>SSDT Cell Identity	C - SSDTIndON				–	

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.

9.1.11.2 TDD 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
<b>UL CcTrCH to add</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				-	
>TFCS	<del>M</del>			For the UL.	-	
>TFCI Coding	<del>M</del>				-	
>Puncture Limit	<del>M</del>				-	
<b>UL CcTrCH to modify</b>		0..<maxno of CcTrCHs>			<u>EACH</u>	<u>notify</u>
<u>&gt;CcTrCH ID</u>	<u>M</u>				<u>-</u>	
<u>&gt;TFCS</u>	<u>O</u>			<u>For the UL.</u>	<u>-</u>	
<u>&gt;TFCI Coding</u>	<u>O</u>				<u>-</u>	
<u>&gt;Puncture Limit</u>	<u>O</u>				<u>-</u>	
<b>UL CcTrCH to delete</b>		0..<maxno of CcTrCHs>			<u>EACH</u>	<u>notify</u>
<u>&gt;CcTrCH ID</u>	<u>M</u>				<u>-</u>	
<b>DL CcTrCH Information to add</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				-	
>TFCS	<del>M</del>			For the DL.	-	
>TFCI Coding	<del>M</del>				-	
>Puncture Limit	<del>M</del>				-	
<b>DL CcTrCH to modify</b>		0..<maxno of CcTrCHs>			<u>EACH</u>	<u>notify</u>
<u>&gt;CcTrCH ID</u>	<u>M</u>				<u>-</u>	
<u>&gt;TFCS</u>	<u>O</u>			<u>For the DL.</u>	<u>-</u>	
<u>&gt;TFCI Coding</u>	<u>O</u>				<u>-</u>	
<u>&gt;Puncture Limit</u>	<u>O</u>				<u>-</u>	
<b>DL CcTrCH to delete</b>		0..<maxno of CcTrCHs>			<u>EACH</u>	<u>notify</u>
<u>&gt;CcTrCH ID</u>	<u>M</u>				<u>-</u>	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>DCH ID	M				-	
>CcTrCH Id	O			UL CcTrCH in which the DCH is mapped.	-	
>CcTrCH Id	O			DL CcTrCH in which the DCH is mapped	-	
>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				-	
<b>DCHs to Add</b>		0..<maxno of DCHs>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>DCH ID	M				–	
>CCTrCH Id	M			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH Id	M			DL CCTrCH in which the DCH is mapped	–	
>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				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs 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				–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
<b>&gt;Secondary CCPCH Info</b>		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				–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;&gt;Scheduling Information</b>		1			–	
>>>>IB_SG REP	M				–	
<b>&gt;&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>>IB_SG POS	M				–	
<b>&gt;Downlink Code Information</b>		<i>0..&lt;maxno ofDLCode s&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
<b>&gt;DCH to be Added</b>		<i>0..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				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				–	
<b>&gt;DCH to be Modified</b>		<i>0..&lt;maxno ofDCHs&gt;</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



## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		0..1			YES	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information to be added</b>		0+..<maxno ofDPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	<u>M</u> ⊖				–	
>>>Burst Type	<u>M</u> ⊖				–	
>>>Midamble Shift	<u>M</u> ⊖				–	
>>>Time Slot	<u>M</u> ⊖				–	
>>>TDD Physical Channel Offset	<u>M</u> ⊖				–	
>>>Repetition Period	<u>M</u> ⊖				–	
>>>Repetition Length	<u>M</u> ⊖				–	
>>>TFCI Presence	<u>M</u> ⊖				–	
<b>&gt;&gt;UL DPCH to be modified</b>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	<u>M</u>				=	
>>>TDD Channelisation Code	<u>O</u>				=	
>>>Burst Type	<u>O</u>				=	
>>>Midamble Shift	<u>O</u>				=	
>>>Time Slot	<u>O</u>				=	
>>>TDD Physical Channel Offset	<u>O</u>				=	
>>>Repetition Period	<u>O</u>				=	
>>>Repetition Length	<u>O</u>				=	
>>>TFCI Presence	<u>O</u>				=	
<b>&gt;&gt;UL DPCH to be deleted</b>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	<u>M</u>				=	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information to be added</b>		0+..<maxno ofDPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	<u>M</u> ⊖				–	
>>>Burst Type	<u>M</u> ⊖				–	
>>>Midamble Shift	<u>M</u> ⊖				–	
>>>Time Slot	<u>M</u> ⊖				–	
>>>TDD Physical Channel Offset	<u>M</u> ⊖				–	
>>> Repetition Period	<u>M</u> ⊖				–	
>>>Repetition Length	<u>M</u> ⊖				–	
>>>TFCI Presence	<u>M</u> ⊖				–	
<b>&gt;&gt;DL DPCH to be modified</b>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	<u>M</u>				=	
>>>TDD Channelisation Code	<u>O</u>				=	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>Burst Type	O				-	
>>>Midamble Shift	O				-	
>>>Time Slot	O				-	
>>>TDD Physical Channel Offset	O				-	
>>> Repetition Period	O				-	
>>>Repetition Length	O				-	
>>>TFCI Presence	O				-	
>>DL DPCH to be deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				-	
>DCH to be Added		0..<maxnoof DCHs>		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				-	
>DCH to be Modified		0..<maxnoof DCHs>		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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.

## 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
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O			TFCS for the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O			TFCS for the DL.	–	
>TFCI Signalling Mode	O				–	
<b>DCHs to Modify</b>		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				–	
<b>DCHs to add</b>		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				–	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	

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

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
<b>UL CCH Information to modify</b>		<i>0..&lt;maxnoof CCHs&gt;</i>			EACH	notify
>CCH ID	M				–	
>TFCS	M				–	
<b>UL CCH Information to delete</b>		<i>0..&lt;maxnoof CCHs&gt;</i>			<u>EACH</u>	<u>notify</u>
>CCH ID	<u>M</u>				<u>–</u>	
<b>DL CCH Information to modify</b>		<i>0..&lt;maxnoof CCHs&gt;</i>			EACH	notify
>CCH ID	M				–	
>TFCS	M				–	
<b>DL CCH Information to delete</b>		<i>0..&lt;maxnoof CCHs&gt;</i>			<u>EACH</u>	<u>notify</u>
>CCH ID	<u>M</u>				<u>–</u>	
<b>DCHs to Modify</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>CCH ID	O			UL CCH in which the DCH is mapped.	–	
>CCH ID	O			DL CCH in which the DCH is mapped	–	
>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				–	
<b>DCHs to Add</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>CCH ID	M			UL CCH in which the DCH is mapped.	–	
>CCH ID	M			DL CCH in which the DCH is mapped	–	
>DCH Combination Ind	O				–	
>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				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>UL FP Mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	

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

## 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>> <b>Scheduling Information</b>		1			–	
>>>>IB_SG REP	M				–	
>>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>>IB_SG POS	M				–	
> <b>DCH to be Added</b>		<i>0..&lt;maxno ofDCHs&gt;</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	M				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Address						
>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				-	
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.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

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-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-InformationAddItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,  
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,  
 id-DL-CCTrCH-InformationModifyItem-RL-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,  
 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-DL-CodeInformationListIE-PhyChReconfRqstFDD,  
 id-DL-CodeInformationListIE-RL-AdditionFailureFDD,  
 id-DL-CodeInformationListIE-RL-AdditionRspFDD,  
 id-DL-CodeInformationListIE-RL-ReconfReadyFDD,  
 id-DL-CodeInformationListIE-RL-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-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,  
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-UC-ID,  
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,  
 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-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

```
-- *****
--
-- 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 } |
  { 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 },
  ...
}
```

```
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,
  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 ::= {
  ...
}
```

```
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 {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS          OPTIONAL,
  tFCI-Coding        TFCI-Coding   OPTIONAL,
  punctureLimit      PunctureLimit OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs} }

```

```

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD    CRITICALITY notify TYPE UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD PRESENCE mandatory
  },
  ...
}

```

```

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs} }

```

```

DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD    CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory
  },
  ...
}

```

```

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= 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 {
  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,
ul-FP-Mode            UL-FP-Mode            OPTIONAL,
toAWS                 ToAWS                 OPTIONAL,
toAWE                 ToAWE                 OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
...
}

```

```

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

```

```

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

```

```

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
dCH-ID          DCH-ID,
ul-CCTrCH-ID   CCTrCH-ID,
dl-CCTrCH-ID   CCTrCH-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,
toAWS         ToAWS,
toAWE         ToAWE,
iE-Extensions ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
...
}

```

```

DCH-AddItem-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 ::= {  
    ...  
}
```

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

```

-- *****
--
-- RADIO LINK RECONFIGURATION READY TDD
--
-- *****

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

RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-ReconfReadyTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-ReconfReadyTDD ::= 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,
    dCHsToBeAdded       DCH-AddList-RL-ReconfReadyTDD OPTIONAL,
    dCHsToBeModified    DCH-ModifyList-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,
    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 (1..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 ::= {
...
}
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,
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 ::= {
  ...
}
```

```
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 ::= {
    ...
}

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 ::= {
  ...
}

RadioLinkReconfigurationReadyTDD-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 ::= {
    { ID id-AllowedQueuingTime    CRITICALITY reject    TYPE AllowedQueuingTime    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD    PRESENCE
optional } |
{ ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD    PRESENCE
optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD    CRITICALITY notify    TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD    PRESENCE
optional } |
{ ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD    CRITICALITY notify    TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD    PRESENCE
optional } |
    { ID id-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 {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    iE-Extensions            ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 {
    cCTrCH-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 ::= {
    ...
  }

  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 {
    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,
    ul-FP-Mode            UL-FP-Mode     OPTIONAL,
    toAWS                 ToAWS          OPTIONAL,
    toAWE                 ToAWE          OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    limitedPowerIncrease  LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    dCH-CombinationInd    DCH-CombinationInd OPTIONAL,
    ul-TransportformatSet TransportFormatSet,
    dl-TransportformatSet TransportFormatSet,
    ul-BLER               BLER,
    dl-BLER               BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    ul-FP-Mode            UL-FP-Mode,
    toAWS                 ToAWS,
    toAWE                 ToAWE,
    iE-Extensions        ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-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 ::= {  
} ...  
}
```

## 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-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

-- *****

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

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-AllowedQueueingTime        INTEGER ::= 4

```

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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-InformationAddItem-RL-ReconfPrepTDD	INTEGER ::= 44
<del>id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 45</del>
<del>id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 46</del>
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 47 <del>5</del>
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 48 <del>6</del>
<del>id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 49</del>
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 50 <del>47</del>
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 51 <del>48</del>
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 52 <del>49</del>
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 53 <del>0</del>
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 54 <del>1</del>
<del>id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 55</del>

<del>id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 56</del>
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 572
<del>id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 58</del>
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 593
id-DL-CodeInformationListIE-PhyChReconfRqstFDD	INTEGER ::= 6054
id-DL-CodeInformationListIE-RL-AdditionFailureFDD	INTEGER ::= 6155
id-DL-CodeInformationListIE-RL-AdditionRspFDD	INTEGER ::= 6256
id-DL-CodeInformationListIE-RL-ReconfReadyFDD	INTEGER ::= 6357
id-DL-CodeInformationListIE-RL-SetupFailureFDD	INTEGER ::= 6458
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 6559
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 6660
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 671
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 682
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 693
id-DL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 7064
<del>id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD</del>	<del>INTEGER ::= 65</del>
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 71
<del>id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD</del>	<del>INTEGER ::= 72</del>
<del>id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD</del>	<del>INTEGER ::= 73</del>
id-DL-SIRTarget	INTEGER ::= 7466
id-DLReferencePower	INTEGER ::= 7567
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 7668
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 7769
id-DRXCycleLengthCoefficient	INTEGER ::= 780
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 791
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 8072
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 8173
id-DedicatedMeasurementType	INTEGER ::= 8274
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 8375
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 8476
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 8577
id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 8678
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 8779
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 8880
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 8981
id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD	INTEGER ::= 9082
id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD	INTEGER ::= 9183
id-IMSI	INTEGER ::= 9284
id-L3-Information	INTEGER ::= 9385
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 9486
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 9587
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 9688
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 9789
id-MaxAdjustmentPeriod	INTEGER ::= 9890
id-MaxAdjustmentStep	INTEGER ::= 991
id-MeasurementFilterCoefficient	INTEGER ::= 10092
id-MeasurementID	INTEGER ::= 10193
id-MultipleURAsIndicator	INTEGER ::= 10294
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 10395
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 10496
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 10597

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id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= <del>10698</del>
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= <del>10799</del>
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD	INTEGER ::= <del>1080</del>
id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD	INTEGER ::= <del>1091</del>
id-PagingArea-PagingRqst	INTEGER ::= <del>11002</del>
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD	INTEGER ::= <del>11103</del>
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD	INTEGER ::= <del>11204</del>
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD	INTEGER ::= <del>11305</del>
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD	INTEGER ::= <del>11406</del>
id-PowerAdjustmentType	INTEGER ::= <del>11507</del>
id-ProcedureScope-DL-PC-Rqst	INTEGER ::= <del>11608</del>
id-RANAP-RelocationInformation	INTEGER ::= <del>11709</del>
id-RL-Information-PhyChReconfRqstFDD	INTEGER ::= <del>11810</del>
id-RL-Information-PhyChReconfRqstTDD	INTEGER ::= <del>11911</del>
id-RL-Information-RL-AdditionRqstFDD	INTEGER ::= <del>12012</del>
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= <del>12113</del>
id-RL-Information-RL-DeletionRqst	INTEGER ::= <del>12214</del>
id-RL-Information-RL-FailureInd	INTEGER ::= <del>12315</del>
id-RL-Information-RL-ReconfPrepFDD	INTEGER ::= <del>12416</del>
id-RL-Information-RL-RestoreInd	INTEGER ::= <del>12517</del>
id-RL-Information-RL-SetupRqstFDD	INTEGER ::= <del>12618</del>
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= <del>12719</del>
id-RL-InformationItem-DM-Rprt	INTEGER ::= <del>12820</del>
id-RL-InformationItem-DM-Rqst	INTEGER ::= <del>12921</del>
id-RL-InformationItem-DM-Rsp	INTEGER ::= <del>13022</del>
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= <del>13123</del>
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= <del>13224</del>
id-RL-InformationList-RL-DeletionRqst	INTEGER ::= <del>13325</del>
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= <del>13426</del>
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= <del>13527</del>
id-RL-InformationResponse-RL-ReconfReadyTDD	INTEGER ::= <del>13628</del>
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= <del>13729</del>
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= <del>13830</del>
id-RL-InformationResponseItem-RL-ReconfReadyFDD	INTEGER ::= <del>13931</del>
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= <del>14032</del>
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= <del>14133</del>
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= <del>14234</del>
id-RL-InformationResponseList-RL-ReconfReadyFDD	INTEGER ::= <del>14335</del>
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= <del>14436</del>
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= <del>14537</del>
id-RLItem-DM-Rprt	INTEGER ::= <del>14638</del>
id-RLItem-DM-Rqst	INTEGER ::= <del>14739</del>
id-RLItem-DM-Rsp	INTEGER ::= <del>14840</del>
id-RL-ReconfigurationFailure-RL-ReconfFail	INTEGER ::= <del>14941</del>
id-RL-ReconfigurationFailureList-RL-ReconfFail	INTEGER ::= <del>15042</del>
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= <del>15143</del>
id-RL-Set-InformationItem-DM-Rqst	INTEGER ::= <del>15244</del>
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= <del>15345</del>
id-RL-Set-Information-RL-FailureInd	INTEGER ::= <del>15446</del>
id-RL-Set-Information-RL-RestoreInd	INTEGER ::= <del>15547</del>
id-RL-SetItem-DM-Rprt	INTEGER ::= <del>15648</del>

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id-RL-SetItem-DM-Rqst	INTEGER ::= 15749
id-RL-SetItem-DM-Rsp	INTEGER ::= 15850
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind	INTEGER ::= 15951
id-ReportCharacteristics	INTEGER ::= 16052
id-Reporting-Object-RL-FailureInd	INTEGER ::= 16153
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 16254
id-S-RNTI	INTEGER ::= 16355
id-SAI	INTEGER ::= 16456
id-SRNC-ID	INTEGER ::= 16557
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD	INTEGER ::= 16658
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 16759
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 16860
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 16961
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 17062
id-TransportBearerID	INTEGER ::= 17163
id-TransportBearerRequestIndicator	INTEGER ::= 17264
id-TransportLayerAddress	INTEGER ::= 17365
id-UC-ID	INTEGER ::= 17466
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD	INTEGER ::= 17567
<del>id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 176</del>
<del>id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 177</del>
id-UL-CCTrCH-InformationAddItem-RL-ReconfRqstTDD	INTEGER ::= 1768
<del>id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 179</del>
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 18069
<del>id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 181</del>
<del>id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 182</del>
<del>id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= xxx</del>
id-UL-CCTrCH-InformationAddList-RL-ReconfRqstTDD	INTEGER ::= 18370
<del>id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD</del>	<del>INTEGER ::= xxx</del>
<del>id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 184</del>
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 18571
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 18672
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 18773
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 18874
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 18975
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 19076
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 19177
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 19278
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 19379
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 19480
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 19581
id-UL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 19682
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 19783
<del>id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD</del>	<del>INTEGER ::= 198</del>
<del>id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD</del>	<del>INTEGER ::= 199</del>
id-UL-SIRTarget	INTEGER ::= 200184
id-URA-ID	INTEGER ::= 201185
id-URAIItem-PagingRqst	INTEGER ::= 202186
id-UnsuccessfulRL-InformationResponse	INTEGER ::= 203187
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 204188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 205189

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id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD  
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD  
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD

END

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INTEGER ::= ~~206190~~  
INTEGER ::= ~~207191~~  
INTEGER ::= ~~208192~~

## 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 97**

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: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**  
(at least one should be marked with an X)

(U)SIM  ME  UTRAN / Radio  Core Network

**Source:** R-WG3 **Date:** 22 May 2000

**Subject:** Editorial correction for RNSAP ASN.1

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification

**Release:** Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:**

There are some editorial mistakes in the current ASN.1. This CR provides the corrections of these mistakes. The details of corrections are described below.

### 9.3.3 PDU Definitions

#### 1. RADIO LINK SETUP FAILURE FDD

- The maximum range of the "Unsuccessful RL Information Response" IE in the RADIO LINK SETUP FAILURE (FDD) message is changed from < maxNrOfRLs-1 > to < maxNrOfRLs > in order to align with tabular.

#### 2. RADIO LINK ADDITION RESPONSE TDD

- "DCH-InformationResponseList-RL-AdditionRspFDD" IE in the "NonCombiningItem-RL-AdditionRspTDD" IE is renamed to "DCH-InformationResponseList-RL-AdditionRspTDD". This was the pure editorial mistake in the current version.

#### 3. COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD

- The word, "option", is added to "PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD" IE in the "FACH-InfoForOptionalS-CCPCH-CTCH-ResourceRspTDD" IE. This was the pure editorial mistake in the current version.

**Clauses affected:** 9.3.3

**Other specs affected:**

Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other  
comments:**



help.doc

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

### 9.3.3 PDU Definitions

-- partly omitted --

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

-- partly omitted --

```
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 } }
```

-- partly omitted --

```
-- *****  
--  
-- RADIO LINK SETUP FAILURE FDD  
--  
-- *****
```

-- partly omitted --

```
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 },  
  ...  
}
```

-- partly omitted --

```
-- *****  
--  
-- 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,
  ul-InterferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
  ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD,
  dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD,
  diversityIndication DiversityIndication-RL-AdditionRspTDD,
  minUL-SIR UL-SIR,
  maxUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRspTDD
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

-- partly omitted --

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 },
  ...
}

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

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

-- partly omitted --

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
--
-- *****

-- partly omitted --

SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ SecondaryCCPCHListIEs-CTCH-
ResourceRspTDD }}

SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
  SecondaryCCPCHListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
  ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF
SecondaryCCPCHItem-CTCH-ResourceRspTDD

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
  tDD-ChannelisationCode TDD-ChannelisationCode,
  timeSlot TimeSlot,
  burstType BurstType,
  midambleShift MidambleShift,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  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 },
  ...
}
```

## 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 98**

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: <http://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:** 22 May 2000

**Subject:** Addition criticality information to the CHOICE tags (RNSAP)

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release  Release 96   
B Addition of feature  Release 97   
C Functional modification of feature  Release 98   
D Editorial modification  Release 99   
Release 00

**Reason for change:**

According to the agreement in the R3#10 criticality Adhoc in Gothenborg (R3-000282), all CHOICE tags should have criticality in order to handle conflicts that may occur if new CHOICE tag are added in the future. But in the current tabular and ASN.1, several CHOICE tags have no criticality. This CR proposes to add criticality to these CHOICE tags.

1)Chapter 9.1.18: RADIO LINK FAILURE INDICATION, the criticality for CHOICE tag of Reporting Object, "RL" and "RL Set" are added.

2) Chapter 9.1.19: RADIO LINK RESTORE INDICATION, the criticality of CHOICE tag of Reporting Object, "RL" and "RL Set" are added.

3)Chapter 9.1.31: DEDICATED MEASUREMENT REPORT, the criticality of CHOICE tag of Dedicated Measurement Object Type, "RL" or "ALL RL" and "RLS" or "ALL RLS" are added.

The above modifications are reflected to the ASN.1 as well.

**Clauses affected:** 9.1.18, 9.1.19, 9.1.31, 9.3.3, 9.3.6

**Other specs affected:** Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other**



**comments:**

help.doc

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

### 9.1.18 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				-	
CHOICE <i>Reporting Object</i>	M			Object for which the Failure shall be reported.	<a href="#">YES-</a>	<a href="#">Ignore</a>
>"RL"					<a href="#">YES-</a>	<a href="#">ignore</a>
>>RL Information	M	1 .. <MaxnoofRL S>			EACH	ignore
>>>RL ID	M				-	
>>>Cause	M				-	
>"RL Set"					<a href="#">YES-</a>	<a href="#">ignore</a>
>>RL Set Information		1 .. <MaxnoofRL Sets>			EACH	ignore
>>>RL Set ID	M				-	
>>>Cause	M				-	

### 9.1.19 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				-	
CHOICE <i>Reporting Object</i>	M			Object for which the Restoration shall be reported.	<a href="#">YES-</a>	<a href="#">Ignore</a>
>"RL"					<a href="#">YES-</a>	<a href="#">Ignore</a>
>>RL Information		1..<Maxno ofRLs>			EACH	Ignore
>>>RL ID	M				-	
>"RL Set"					<a href="#">YES-</a>	<a href="#">Ignore</a>
>>RL Set Information		1..<Maxno ofRLSet s>			EACH	Ignore
>>>RL Set ID	M				-	

### 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	Ignore
Transaction Id	M				-	
Measurement Id	M				YES	Ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	Ignore
>"RL" or "ALL RL"					<a href="#">YES</a>	<a href="#">ignore</a>
>>RL Information		1..<maxno ofRLs>			EACH	Ignore
>>>RL-Id	M				-	
>>>DPCH Id	O				-	
>>>Dedicated Measurement Value	M				-	
>"RLS" or "ALL RLS"					<a href="#">YES-</a>	<a href="#">ignore</a>
>>RL Set Information		1..<maxno ofRLSets>			-	
>>>RL Set ID	M				-	
>>>Dedicated Measurement Value	M				-	
CFN	O			Dedicated Measurement Time Reference	YES	Ignore

### 9.3.3 PDU Definitions

-- partly omitted --

...  
id-RLItem-DM-Rprt,

```

id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-RLItem-RL-FailureInd,
id-RLItem-RL-RestoreInd,
id-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-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-RL-SetItem-RL-FailureInd,
id-RL-SetItem-RL-RestoreInd,
...

```

```
-- partly omitted --
```

```
FROM RNSAP-Constants;
```

```
-- partly omitted --
```

```

-- *****
--
-- 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 {
    rL          RL-RL-FailureIndInformationList-RL-FailureInd,
    rL-Set      RL-Set-RL-FailureIndInformationList-RL-FailureInd,
    ...
}

```

```
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 ::= {
    ...
}

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 {
    rL          RL-InformationList-RL-RestoreInd,
    rL-Set     RL-Set-InformationList-RL-RestoreInd,

```

```

...
}

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 ::= {
  ...
}

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 ::= {
}
...

```

-- partly omitted --

## 9.3.6 Constant Definitions

-- partly omitted --

```

-- *****
--
-- IEs
--
-- *****
...
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
id-RLItem-RL-FailureInd                                     INTEGER ::= xxx
id-RL-SetItem-RL-FailureInd                               INTEGER ::= xxx
id-RLItem-RL-RestoreInd                                   INTEGER ::= xxx
id-RL-SetItem-RL-RestoreInd                               INTEGER ::= xxx

```

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.423</b>	<b>CR 099</b>	Current Version: <b>3.1.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: <b>TSG-RAN#8</b> <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	Strategic non-strategic <input type="checkbox"/> (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:**

**Subject:** Correction of tabular format

**Work item:**

<b>Category:</b>	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** There are some editorial mistakes and some inconsistencies between tabular format and ASN.1 in TS25.423. This CR proposes to corrects some mistakes and to adjust tabular format with ASN.1.

**Clauses affected:** 9.1.4.1, 9.1.5.1, 9.1.7.1, 9.1.13, 9.1.15, 9.1.20, 9.1.22, 9.2.1.9

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

**Other comments:**



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

## 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	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1..<maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1..<maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the	–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				combining		
>>Non Combining or IE not present				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		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				–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxno of neighbourin gRNCs>			EACH	ignore
>> RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		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					
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneig hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		YES	ignore
Downlink SIR Target	MO		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

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxno ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>> <i>Non Combining or IE not present</i>				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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 ofTDDneigh hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>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	<del>M</del> O		Uplink SIR		YES–	ignore
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.

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

## 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				–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>1..&lt;maxnoof DCHs&gt;</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				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Offset						
>>>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

## 9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	<del>ignore</del> reject
Transaction ID	M				-	
CFN	M				YES	ignore



## 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	<del>ignore</del> t
Transaction ID	M				-	

### 9.1.20 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				-	
Power Adjustment Type	M				YES	ignore
DL Reference Power	C-Common		DL Power		-	
<b>&gt;DL Reference Power Information</b>	C-Individual	<i>1..&lt;maxnoofRLs&gt;</i>			GLOBAL	ignore
>>RL ID	M				-	
>>DL Reference Power	M		DL Power		-	
Max Adjustment Step	C-CommonOrIndividual				-	
Max. Adjustment Period	C-CommonOrIndividual				-	

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or 'Individual'

Range Bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.

## 9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

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	<del>ignore</del> <del>reject</del> ‡
Criticality Diagnostics	O				YES	<del>ignore</del> <del>reject</del> ‡

9.2.1.9 CN CS Domain Identifier

Identification of the CN node in the CS Domain.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CN <u>CSPS</u> Domain Identifier</b>				
>PLMN Id	M		OCTET STRING (3)	- digits 0 to 9, two digits per octet, - each digit encoded 0000 to 1001, - 1111 used as filler - bit 4 to 1 of octet n encoding digit 2n-1 - bit 8 to 5 of octet n encoding digit 2n  -The PLMN-ID consists of 3 digits from MCC followed by either -a filler plus 2 digits from MNC (in case of 2 digit MNC) or -3 digits from MNC (in case of a 3 digit MNC).
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed

## 9.3.2 Elementary Procedure Definitions

```
-- partly omitted --

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

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
}

-- partly omitted --
```

## 9.3.3 PDU Definitions

```
-- partly omitted --

-- *****
--
-- 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 },
    ...
}

-- partly omitted --

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

RadioLinkSetupFailureFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkSetupFailureFDD-IEs}},
```

```

    protocolExtensions          ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-
Extensions}}
    ...
}

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

-- partly omitted --

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

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

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 ::= {
    ...
}

-- partly omitted --

-- *****
--
-- 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'
    { 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'
    ...
}

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,
    ...
}

```

-- partly omitted --

```

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION COMMAND
--
-- *****

```

```

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

```

```

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

```

```

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

```

-- partly omitted --

### 9.3.4 Information Element Definitions

```

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

```

-- partly omitted --

```

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 ::= {
    ...
}

```



## 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 104**

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: **RAN#8**

list expected approval meeting # here ↑

For approval for information

strategic  (for SMG use only)  
non-strategic

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:** Measurement periods and accuracy for TDD

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release  Release 96   
B Addition of feature  Release 97   
C Functional modification of feature  Release 98   
D Editorial modification  Release 99   
Release 00

**Reason for change:** In RAN3#12 meeting a reference to 25.133 was introduced for clarification of measurement period and accuracy. This CR includes a reference to 25.123 for the TDD related measurements. All updates compared to CR71r1 are highlighted in green.

**Clauses affected:** 2, 8.3.11

**Other specs affected:** Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other comments:**



help.doc

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

---

## 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 25.133: "Requirements for support of Radio Resource management \(FDD\)".](#)
- [22] [3G TS 25.123: "Requirements for support of Radio Resource management \(TDD\)".](#)

[Editor's note: The dating of reference [20] needs to be verified. It has been included from the ITU-T list of recommendations in force. The dating of the reference is FFS.]

[Editor's note: The reference [5] needs to be identified. Until then the description of the parameters CN PS Domain Identifier, CN CS Domain Identifier, and CRNC ID contains more information than otherwise may be needed.]

## 8.3.11 Measurement Initiation

[Editor's note: According to TSGR#5 (99)564, the following measurements shall also be considered:

- \* Time of Arrival
- \* Frequency Offset
- \* Round Trip Time
- \* RX Timing Deviation

Whether these measurements shall be dedicated or common measurements have so far not been considered by TSG RAN WG3 and are thus not incorporated.]

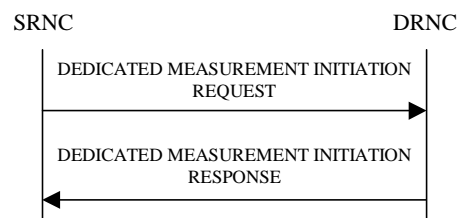
### 8.3.11.1 General

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

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

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

### 8.3.11.2 Successful Operation



**Figure 1: Measurement Initiation procedure, Successful Operation**

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

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

If the *Dedicated Measurement Object* IE is set to "RL", the measurement reports shall give the measurement result for each of the indicated Radio Links.

[FDD - If the *Dedicated Measurement Object* IE is set to "RLS", the measurement reports shall give the measurement result for each of the indicated Radio Link Sets.]

If the *Dedicated Measurement Object* IE is set to "ALL RL", the measurement reports shall give the measurement result for each of the current and future Radio Links within the UE Context.

[FDD - If the *Dedicated Measurement Object* IE is set to "ALL RLS", the measurement reports shall give the measurement result for each of the existing and future Radio Link Sets within the UE Context.]

#### Report characteristics

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

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

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

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

If the *Report Characteristics* IE is set to 'Event B', the DRNS shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

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

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

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

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

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

### Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

$M_n$  is the latest received measurement result from physical layer measurements

$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

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

The physical layer measurement results are sampled once every measurement period. For most measurements the measurement period and the accuracy are defined in [21] [22]. For those measurements not covered in [21] [22] [42], the following measurement period and accuracy are applicable:

Measurement	Accuracy	Measurement period
SIR error	Determined by accuracy of SIR value used for calculating the SIR error (see [21] [22] [42])	See SIR measurement in [21] [22] [42]

**Response message**

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

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

## 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 105**

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:** Add Block STTD Indicator to TDD Neighbouring Cell Information

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release  Release 96   
B Addition of feature  Release 97   
C Functional modification of feature  Release 98   
D Editorial modification  Release 99   
Release 00

**iReason for change:** This CR is based on LS from WG1 (R3-001245) and introduces the Block STTD Indicator within the TDD neighbouring cell information.

**Clauses affected:** 8.3.1.2, 8.3.2.2, 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1, 9.2.3.x, 9.3.3, 9.3.4

**Other specs affected:** Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other comments:**



help.doc

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

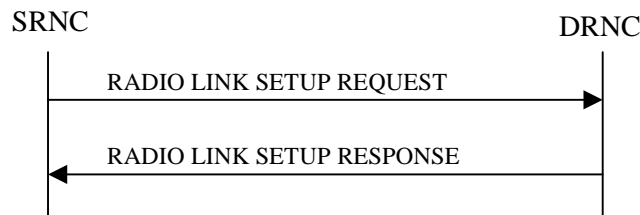
## 8.3.1 Radio Link Setup

### 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.]

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, **the Block STTD Indicator**] of the neighbouring cells to the cell(s) where the radio link(s) are added. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value] and Frame Offset of the neighbouring cell.

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC, 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.

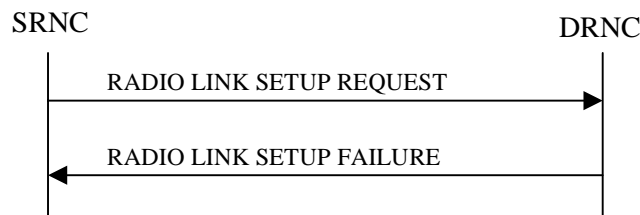
[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message

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*]

### 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].

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.

#### Transport Layer Causes:

- Transport Link Failure

#### Protocol Causes:

- Transaction not Allowed

#### Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;

- Not enough User Plane Processing Resources.

### 8.3.1.4 Abnormal Conditions

If the DRNC receives either an S-RNTI or a D-RNTI which already has RL(s) established the DRNC shall send the RADIO LINK SETUP FAILURE message to the SRNC, indicating the reason for failure.

## 8.3.2 Radio Link Addition

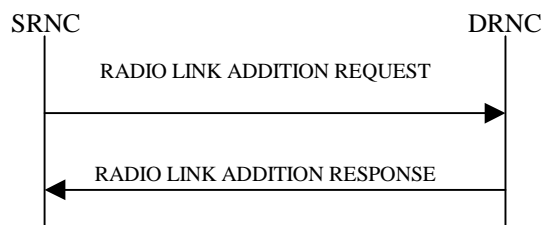
### 8.3.2.1 General

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

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

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

### 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.

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 SSSD on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSSD activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSSD capability is supported for this RL, SSSD 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 [FDD-Primary Scrambling Code], the [TDD-Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD-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.

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

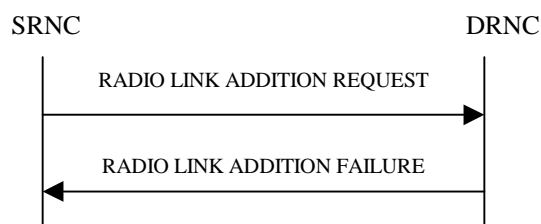


Figure 4: Radio Link Addition procedure: Unsuccessful Operation

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.

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.

**Transport Layer Causes:**

- Transport Link Failure.

**Miscellaneous Causes:**

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

#### 8.3.2.4 Abnormal Conditions

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## 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
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				combining		
>>Non Combining or IE not present				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		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				-	
<b>&gt;Neighbouring Cell Information</b>		0..<maxno ofneighbouringRNCs>			EACH	ignore
>> RNC-Id	M				-	
>>CN PS Domain Identifier	O				-	
>>CN CS Domain Identifier	O				-	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxno ofFDDneighbours>				
>>>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					
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	-	
>>>Frame Offset	O				-	
>>>Cell Parameter ID	M				-	
>>>Sync Case	M				-	
>>>Time Slot	C-Case1				-	
>>>SCH Time Slot	C-Case2				-	
>>>Block STTD Indicator	M				-	
>>>Cell Individual Offset	O				-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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



## 9.1.4.2 TDD 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	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>> DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DCH Information Response</b>		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	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				–	
<b>&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighboringRNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxno ofFDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Cell Individual Offset	O					
>>>Primary CPICH Power	O				–	
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	
<b>&gt;&gt;&gt;Block STTD Indicator</b>	<b>M</b>				<b>–</b>	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		–	
Downlink SIR Target	M		Uplink SIR		–	
Criticality Diagnostics	O				YES	ignore

<b>Condition</b>	<b>Explanation</b>
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
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
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxno ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				–	
>CHOICE <i>diversity Indication</i>						
>>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
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				
>>>C-Id	M					

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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..&lt;maxno ofTDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Block STTD Indicator	<u>M</u>				=	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		–	
Downlink SIR Target	M		Uplink SIR		–	
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.

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

## 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				–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>>Multiplexing Position	M				–	
>>STTD Indicator	M				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>1..&lt;maxnoof DCHs&gt;</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				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Block STTD Indicator	<b>M</b>				<b>–</b>	
>>>Cell Individual	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Offset						
>>>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



## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<maxnoof DPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<maxnoof DPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Block STTD Indicator	<u>M</u>				–	
>>>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.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.8 RADIO LINK ADDITION FAILURE

## 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Unsuccessful RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Succesfull RL Information Response</b>		0..<maxnoof RLS-2>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL scrambling code	M				–	
>>FDD DL channelisation code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		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				–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxnoof FDD neighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>> <u>Block STTD Indicator</u>	<u>M</u>				<u>–</u>	
>>>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.

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

## 9.2.3 TDD Specific Parameters

### 9.2.3.x Block STTD Indicator

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

<u>Information Element/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Block STTD Indicator</u>			<u>ENUMERATED(active, inactive)</u>	

## PDU Definitions

## IMPORTS

```

AllocationRetentionPriority,
AllowedQueuingTime,
BLER,
Block-STTD-Indicator,
BindingID,
BurstType,
C-ID,
C-RNTI,

```

```

•
•
•
•

```

```

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

```

```

•
•
•
•

```

```

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 -- ,
  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 FAILURE FDD
--
-- *****

    •
    •
    •
    •

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 -- ,
    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 ADDITION RESPONSE FDD
--
-- *****

    •
    •
    •
    •

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 -- ,
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 FAILURE FDD
--
-- *****

•
•
•
•

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
c-ID                        C-ID,
uARFCNforNt                 UARFCN,
frameOffset                  FrameOffset            OPTIONAL,
cellParameterID              CellParameterID,
syncCase                      SyncCase,
timeSlot                      TimeSlot            OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot                  SCH-TimeSlot            OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator      Block-STTD-Indicator,
cellIndividualOffset          CellIndividualOffset    OPTIONAL,
dPCHConstantValue            DPCHConstantValue    OPTIONAL,
pCCPCH-Power                 PCCPCH-Power,
iE-Extensions                ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
...
}

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

```

**Release 1999**

**143**

**3G TS 25.423 V3.1.0 (2000-03)**

}

RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {

...  
}

## IE definitions

- 
- 
- 
- 

```
-- 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
```

```
Block-STTD-Indicator ::= ENUMERATED {
```

```
active,
```

```
inactive
```

```
}
```

```
BurstType ::= ENUMERATED {
```

```
type1 (1),
```

```
type2 (2)
```

```
}
```

- 
- 
- 
-

## 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 CR109**

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:** April 2000

**Subject:** Correction of RL Set Information in the DEDICATED MEASUREMENT INITIATION REQUEST message

**Work item:**

<b>Category:</b> (only one category shall be marked with an X)	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b>	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 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:** RL Set choice in the DEDICATED MEASUREMENT INITIATION REQUEST message includes a group named RL Information. This should be RL Set Information. This CR corrects this error.

**Clauses affected:** 9.1.28

<b>Other specs affected:</b>	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:**

## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction Id	M				–	
Measurement Id	M				YES	reject
Dedicated Measurement Object Type	M				YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>					YES	ignore
>"RL"					YES	reject
>>RL Information		1..<maxn oofRLs>			EACH	reject
>>>RL-Id	M				–	
>>>DPCH Id	O				–	
>"RLS"					YES	reject
>>RL <b>Set</b> Information		1..<maxn oofRLSets>			EACH	reject
>>>RL-Set-id	M				–	
Dedicated Measurement Type	M				YES	reject
Measurement Filter Coefficient	O				YES	reject
Report Characteristics	M				YES	reject

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs a measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on.

## 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 110**

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:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

May, 2000

**Subject:**

Introduction of *First RLS Indicator IE*

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

**Release:**

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

**Reason for change:**

Already during several meetings the need for a First RL indicator IE in the NBAP/RNSAP RADIO LINK SETUP REQUEST message has been discussed, however so far this has not resulted in any updates to the standards.

With this CR, we propose inclusion of a *First RLS indicator IE* in the 2 indicated messages for controlling the DL TPC pattern before UL sync is achieved.

If a TPC pattern has to be sent on the DL when there is no UL sync, the most sensible pattern to use is all "1"s since this will not disturb any already ongoing innerloop signalling towards this UE.

However, there will most likely be a delay of several frames between the start of the DL and obtaining UL sync in the Node B for the first RL. (Note that this is a 2 step approach: the UE can only start UL transmission after it has received DL sync. The Node B can only obtain UL sync after the UE has started UL transmission.) Using an all "1"s pattern in this case, e.g. during 2 frames, could cause an increase of UE UL power by e.g. 30dB assuming a step size of 1dB. Such behaviour would seriously impact system performance.

In order to avoid these large power increases, it is proposed to introduce the *First RLS indicator IE* with the following behaviour:

- If the *First RLS indicator IE* is set to "first RLS", the Node B shall use a TPC pattern of n\*"01" + "1" in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The variable n is a locally configured variable.
- For all other RLs, the Node B shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.

The first RLS indicator IE is proposed to be present at RL level since this will enable an

SRNC to e.g. only use it for the RL which it assumes to achieve the earliest UL sync.

**Clauses affected:** 8.3.1.2, 9.1.3.1, 9.2.2.x, 9.3.3, 9.3.4

<b>Other specs affected:</b>	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:**

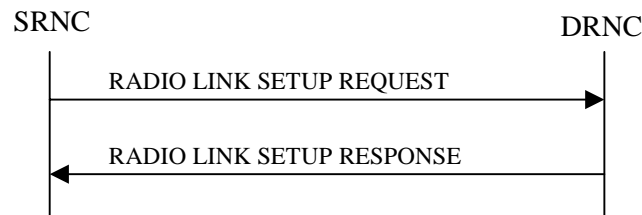
## 8.3.1 Radio Link Setup

### 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 *First RLS Indicator IE* indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator IE* is set to "first RLS", the DRNS shall use a TPC pattern of  $n \cdot "01" + "1"$  in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with  $CFN \bmod 4 = 0$ . For all other RLs, the DRNS shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.]

[FDD - The Diversity Control Field 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.]

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*]

## 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
<b>UL DPCH Information</b>		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				–	
<b>DL DPCH Information</b>		1			YES	reject
>Transport Format Combination Set	M				–	
>DL DPCH Slot Format	M				–	
>TFCI Signalling Mode	M				–	
>TFCI Presence	C- SlotFormat				–	
>Multiplexing Position	M				–	
<b>&gt;Power Offset Information</b>		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				–	
<b>DCH Information</b>		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				–	
>ToAWS	M				–	
>ToAWE	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DRAC control	M				–	
<b>RL Information</b>		1...<maxnoofRLs>			EACH	notify
>RL ID	M				–	
>C-ID	M				–	
>First RLS Indicator	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				–	

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 <b>RL Information</b> .
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.

### 9.2.2.x First RLS Indicator

The First RLS Indicator IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>First RLS Indicator</u>			<u>ENUMERATED (first RLS, not first RLS)</u>	

### 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
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CTrCH-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,
    FirstRLS-Indicator,
    FrameHandlingPriority,
    FrameOffset,
    GapPeriod,
    .....

```

```

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

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

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

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,
    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,
    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 ::= {
    ...
}

```



```
-- 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)

FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}

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

FrameOffset                 ::= INTEGER (0..255)
-- Frames
```

<b>CHANGE REQUEST</b>			
<b>25.423</b>	<b>CR</b>	<b>CR119</b>	Current Version: <b>3.1.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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:** April 2000

**Subject:** Clarification of Notations used in RNSAP

**Work item:**

<b>Category:</b>	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** In the current RNSAP specification there are some notations being used. The notations are a) tagging of FDD and TDD specific parts and b) the notations used when referring to procedures, messages, IEs, and values of IEs. However, these notations have been developed based on a common understanding in RAN WG3 and are not clearly visible to people outside RAN WG3.

This CR proposes to introduce the notations used in RNSAP in clause 4 (*General*) of RNSAP (A new subclause denoted *Specification Notations*).

**Clauses affected:** 4

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.413 CR102, 25.433 CR139  → List of CRs:  → List of CRs:  → List of CRs:  → List of CRs:
------------------------------	---	--

**Other comments:**

## 4.x Specification Notations

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

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

## 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 121**

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:** Crossing signalling between the Physical Channel Reconfiguration procedure and other procedures.

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
 A Corresponds to a correction in an earlier release  Release 96   
 B Addition of feature  Release 97   
 C Functional modification of feature  Release 98   
 D Editorial modification  Release 99   
 Release 00   
 (only one category shall be marked with an X)

**Reason for change:** This contribution attempts to resolve the currently listed open issue on crossing signalling between the Physical Channel Reconfiguration procedure and other procedures (Agenda item 18.4.b).  
 The contribution proposes inclusion of several paragraphs concerning the handling of message crossing cases.

**Clauses affected:** 8.3.8

**Other specs affected:** Other 3G core specifications  → List of CRs:  
 Other GSM core specifications  → List of CRs:  
 MS test specifications  → List of CRs:  
 BSS test specifications  → List of CRs:  
 O&M specifications  → List of CRs:

**Other comments:**

## 8.3.8 Physical Channel Reconfiguration

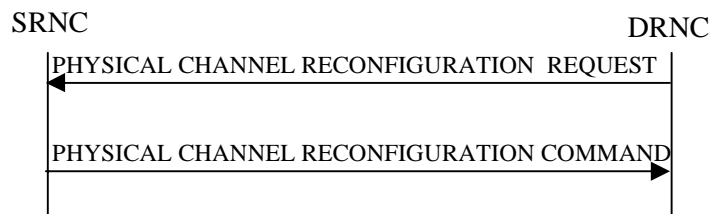
### 8.3.8.1 General

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

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

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

### 8.3.8.2 Successful Operation



**Figure 1: Physical Channel Reconfiguration procedure, Successful Operation**

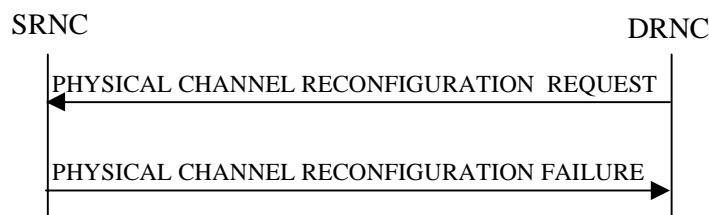
When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

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

Upon reception of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. ~~The SRNC It informs the UE and~~ shall respond with a the PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the CFN indicating the execution time.

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

### 8.3.8.3 Unsuccessful Operation



**Figure 2: Physical Channel Reconfiguration procedure, Unsuccessful Operation**

If the SRNC can not accept the reconfiguration request it ~~will~~ shall send the PHYSICAL CHANNEL RECONFIGURATION FAILURE message to the DRNC, ~~that includ~~ ing the cause for the failure.

Typical cause values are:

#### Radio Network Layer Causes:

- Reconfiguration not Allowed.

#### 8.3.8.4 Abnormal Conditions

If the DRNC receives any of the messages RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST while waiting for the PHYSICAL CHANNEL RECONFIGURATION COMMAND message, this shall be regarded as a Physical Channel Reconfiguration failure. These messages thus override the DRNC request for physical channel reconfiguration.

When the SRNC receives a PHYSICAL CHANNEL RECONFIGURATION REQUEST message while a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing, it shall assume that receipt of any of the messages RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST or RADIO LINK DELETION REQUEST by the DRNC has terminated the Physical Channel Reconfiguration procedure. No separate response message for the Physical Channel Reconfiguration procedure shall be returned by the SRNC in this situation.

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>					
<b>25.423 CR CR122</b>		Current Version: <b>3.1.0</b>					
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team					
For submission to: <b>TSG RAN #8</b>	for approval for information	<table border="1" style="margin: 0 auto;"> <tr><td style="text-align: center;"><b>X</b></td></tr> <tr><td style="text-align: center;"> </td></tr> </table>	<b>X</b>		strategic <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"> </td></tr></table> non-strategic <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"> </td></tr></table> (for SMG use only)		
<b>X</b>							
Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <a href="ftp://ftp.3gpp.org/Information/CR-Form-v2.doc">ftp://ftp.3gpp.org/Information/CR-Form-v2.doc</a>							

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

**Source:** R-WG3 **Date:** April 2000

**Subject:** Handling of mismatch between Measurement Type and Measurement Object

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release  Release 96   
 B Addition of feature  Release 97   
 C Functional modification of feature  Release 98   
 D Editorial modification  Release 99   
 Release 00

**Reason for change:** Currently it is a bit unclear what the result would be if the SRNC request a Measurement Type on a Measurement Object for which the measurement is not defined. If for instance the SIR is requested to be measured on a Radio Link it is clear from the definition of the Measurement Type (in 25.215) that the measurement cannot be performed. However, if the DL Tx Code Power measurement is requested for a Radio Link Set it is not so clear whether or not this measurement can be performed.

This CR clarifies that the measurements shall only be performed for the Measurement Objects as defined in either 25.215 for FDD or 25.225 for TDD.

This CR also clarifies the references to the Dedicated Measurement Object Type IE, i.e. the word "Type" is missing.

**Clauses affected:** 8.3.11

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	TS 25.433 CR141
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:**

### 8.3.11 Measurement Initiation

[Editor's note: According to TSGR#5 (99)564, the following measurements shall also be considered:

- \* Time of Arrival
- \* Frequency Offset
- \* Round Trip Time
- \* RX Timing Deviation

Whether these measurements shall be dedicated or common measurements have so far not been considered by TSG RAN WG3 and are thus not incorporated.]

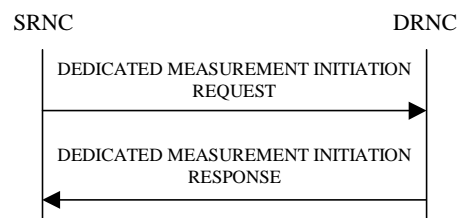
#### 8.3.11.1 General

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

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

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

#### 8.3.11.2 Successful Operation



**Figure 1: Measurement Initiation procedure, Successful Operation**

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

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

- | If the *Dedicated Measurement Object Type* IE is set to "RL", the measurement reports shall give the measurement result for each of the indicated Radio Links.
- | [FDD - If the *Dedicated Measurement Object Type* IE is set to "RLS", the measurement reports shall give the measurement result for each of the indicated Radio Link Sets.]
- | If the *Dedicated Measurement Object Type* IE is set to "ALL RL", the measurement reports shall give the measurement result for each of the current and future Radio Links within the UE Context.
- | [FDD - If the *Dedicated Measurement Object Type* IE is set to "ALL RLS", the measurement reports shall give the measurement result for each of the existing and future Radio Link Sets within the UE Context.]

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

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

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

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



If the *Report Characteristics* IE is set to 'Event B', the DRNS shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the DRNC shall use the value zero for the hysteresis time.

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

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

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

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

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

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

$M_n$  is the latest received measurement result from physical layer measurements

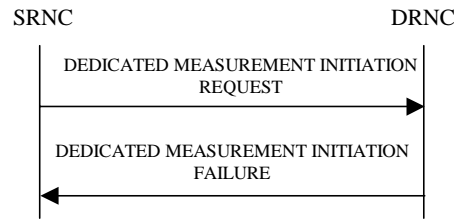
$a$  = one divided by the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

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

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

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

### 8.3.11.3 Unsuccessful Operation



**Figure 2: Measurement Initiation procedure, Unsuccessful Operation**

If the Dedicated Measurement Type received in the *Dedicated Measurement Type IE* is not defined in ref. [11] or [14] to be measured on the Dedicated Measurement Object Type received in the *Dedicated Measurement Object Type IE* in the DEDICATED MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Dedicated Measurement Initiation procedure as failed. For measurements not defined in ref. [11] or [14] the DRNS shall regard the measurement as failed unless the *Dedicated Measurement Object Type IE* has the following value(s):

Dedicated Measurement Type	Dedicated Measurement Object Type
SIR Error	"RLS" [FDD] or "RL" [TDD]

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

Typical cause values are:

**Radio Network Layer Causes:**

- Measurement not Supported For The Object

**Miscellaneous Causes:**

- Control Processing Overload
- HW Failure

### 8.3.11.4 Abnormal Conditions

-

**TSG-RAN Working Group 3 Meeting #13**  
**Hawaii, USA, 22<sup>nd</sup> – 26<sup>th</sup> May 2000**

**Document R3-001306**

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

**CHANGE REQUEST**

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**25.423**

**CR**

**CR123**

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**  
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**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

**R-WG3**

**Date:**

**April 2000**

**Subject:**

**Removal of the DedicatedMeasurementObjectType from the IE definitions ASN.1 Module**

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction   
 A Corresponds to a correction in an earlier release   
 B Addition of feature   
 C Functional modification of feature   
 D Editorial modification

**Release:**

Phase 2   
 Release 96   
 Release 97   
 Release 98   
 Release 99   
 Release 00

**Reason for change:**

In the current RNSAP specification the DedicatedMeasurementObjectType is defined in the IE definitions module but not used anywhere in the ASN.1 modules.

This CR removes the DedicatedMeasurementObjectType from chapter 9.3.4.

**Clauses affected:**

**8.3.11.2, 9.3.4**

**Other specs affected:**

Other 3G core specifications  
Other GSM core specifications  
MS test specifications  
BSS test specifications  
O&M specifications

- List of CRs:
- List of CRs:
- List of CRs:
- List of CRs:
- List of CRs:



**Other comments:**



## 9.3.4 Information Element Definitions

```

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

<Omitted parts of the ASN.1 module.>

-- 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
  ...
}

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,
    ...
}
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
<The rest of the ASN.1 module is omitted.>

```

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.423</b>	<b>CR</b>	<b>124</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
Current Version: <b>3.1.0</b>		
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here</small>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>
		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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:** April 2000

**Subject:** Correction of the STTD Indicator IE

**Work item:**

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

**Reason for change:** In the current RNSAP specification the definition of the STTD Indicator is expressed as a requirement on the receiver but the IE is only used to inform the SRNC on the STTD status of a Secondary CCPCH.

This CR corrects the current definition of the STTD Indicator to reflect that it only informs the receiver about the STTD status.

**Clauses affected:** 9.2.2.42

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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**Other comments:**

### 9.2.2.42 STTD Indicator

Indicates if STTD ~~shall be~~ active or not.

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



## 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 129**

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:** Tx Diversity indicator in Neighbouring Cell Information

**Work item:**

**Category:** F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification   
(only one category shall be marked with an X)

**Release:** Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:** At the WG3 meeting #12, it is requested to change the Tx Diversity Indicator IE in Neighbouring Cell Information from optional to mandatory filed by WG1(R3-001245).  
This CR reflects the result of discussion.

**Clauses affected:** 9.1.4 Radio Link Setup Response (9.1.4.1 & 9.1.4.2)  
9.1.5 Radio Link Setup Failure (9.1.5.1)  
9.1.7 Radio Link Addition Response (9.1.7.1 & 9.1.7.2)  
9.1.8 Radio Link Addition Failure (9.1.8.1)  
9.3.3 PDU Definitions

**Other specs affected:** Other 3G core specifications  → List of CRs:   
Other GSM core specifications  → List of CRs:   
MS test specifications  → List of CRs:   
BSS test specifications  → List of CRs:   
O&M specifications  → List of CRs:

**Other comments:**

## 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
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>> <b>Scheduling Information</b>		1			–	
>>>>IB_SG REP	M				–	
>>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL ID for the	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				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	EM					
>>>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				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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

## 9.1.4.2 TDD 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	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>> DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DCH Information Response</b>		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighbouringRNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxno ofFDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Cell Individual Offset	O					
>>>Primary CPICH Power	O				–	
>>>Tx diversity Indicator	<u>EM</u>					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>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		–	
Downlink SIR Target	M		Uplink SIR		–	
Criticality Diagnostics	O				YES	ignore

<b>Condition</b>	<b>Explanation</b>
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CTrCH.
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
MaxnoofCTrCHs	Maximum number of CTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.5 RADIO LINK SETUP FAILURE

## 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1..&lt;maxn ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxn ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxn ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				–	
>CHOICE <i>diversity Indication</i>						
>>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
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxn ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxn of neighbourin gRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxn ofFDDneig hbours&gt;</i>				
>>>C-Id	M					



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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	OM					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..&lt;maxno ofTDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		–	
Downlink SIR Target	M		Uplink SIR		–	
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.

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

## 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Unsuccessful RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>Cause	M				–	
Criticality Diagnostics	O				YES	ignore

## 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				–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>1..&lt;maxnoof DCHs&gt;</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				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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	<a href="#">EM</a>					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<maxnoof DPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<maxnoof DPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL	–	
>> <i>Non combining</i>					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Address						
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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	<u>EM</u>					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>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.

<b>Range Bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link



## 9.1.8 RADIO LINK ADDITION FAILURE

## 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Unsuccessful RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		0..<maxnoof RLS-2>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL scrambling code	M				–	
>>FDD DL channelisation code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		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				–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxnoof FDD neighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	<u>OM</u>					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>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.

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

## 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Unsuccessful RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>Cause	M				–	
Criticality Diagnostics	O				YES	ignore

```

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

BEGIN

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

IMPORTS
    AllocationRetentionPriority,
    AllowedQueueingTime,
    BLER,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CTrCH-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,
    ...

```

rCCrCn-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,  
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

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

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-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-InformationResponse-RL-ReconfReadyFDD,  
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-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



```

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 } }

-- *****
--
-- 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 },
    ...
}

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 ::= {

```

```

        po2-ForPilotBits      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"

```

```

-- *****
--
-- RADIO LINK SETUP REQUEST TDD
--
-- *****

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

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 } |
    { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify  TYPE UL-CCTrCH-
InformationList-RL-SetupRqstTDD PRESENCE mandatory } |
    { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify  TYPE DL-CCTrCH-
InformationList-RL-SetupRqstTDD PRESENCE mandatory } |
    { ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY reject  TYPE DCH-InformationList-RL-
SetupRqstTDD PRESENCE mandatory } |
    { 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} }

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.
}

```

/

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    ul-cCTrCH-ID CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    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,
    toAWS ToAWS,
    toAWE ToAWE,
    iE-Extensions ProtocolExtensionContainer { {DCH-InformationItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID RL-ID,
    c-ID C-ID,
    frameOffset FrameOffset,
    primaryCCPCH-RSCP PrimaryCCPCH-RSCP OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-SetupRqstTDD-
ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-SetupRqstTDD-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
```

```

/
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,
  ...
}

```

```

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,
    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 ::= {
    ...
}

```

```

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

NonCombiningOrIENotPresentItem-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-

```

```

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 ::= {
...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

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

RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE
optional } |
    { 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,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR      UL-SIR,
    minUL-SIR      UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD,
    dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD.
}

```



```

UL-InterferenceCellList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCells)) OF UL-InterferenceCell-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,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

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 ::= {
    ...
}

```

```

    protocolExtensions
Extensions}}
    ...
}

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

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.
}

```

Successful-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,  
  nonCombiningOrIENotPresent NonCombiningOrIENotPresent-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 ::= {  
  ...  
}

NonCombiningOrIENotPresent-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPresentIE-RL-SetupFailureFDD }}

```

NonCombiningOrIENotPresentItem-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 ::= {
    ...
}

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 ::= {
    ...
}

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,
    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-SetupFailureFDD-ExtIEs} } 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-
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 ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD
      CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponse-RL-
SetupFailureTDD
      PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics
      PRESENCE optional },
    ...
}

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
--
-- *****

```

```

        additionRqstFDD PRESENCE mandatory },
        ...
    }

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,
    ...
}

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,
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstTDD-
ExtIEs} } OPTIONAL,
    ...
}

```

```

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,
    ...
}

```



```

    ...
}

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,
    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 },
    ...
}

```

```

/
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 ::= {
    ...
}

```

```

        SID-SupportIndicator          OPTIONAL,
        closedLoopModel-SupportIndicator  ClosedLoopModel-SupportIndicator  OPTIONAL,
        closedLoopMode2-SupportIndicator  ClosedLoopMode2-SupportIndicator  OPTIONAL,
        iE-Extensions
    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 ::= {
    ...
}

-- *****
--
-- 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.
}

```

```

/
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} }

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.

```

```

CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE {
    ...
}

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 },
    ...
}

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-

```

```

...
}
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 },
  ...
}
NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-InformationResponse-RL-AdditionRspFDD DCH-InformationResponseList-RL-AdditionRspFDD,
  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 ::= {
  ...
}
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 ::= {
  ...
}
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.
}

```

```

    ...
}

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 -- ,
    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-
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 ::= {
    { 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 },
    ...
}

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.

```

```

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD      PRESENCE mandatory },
    ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    rL-Set-ID                RL-Set-ID,
    SAI                      SAI,
    ul-InterferenceLevel    UL-InterferenceLevel,
    dl-CodeInformation      DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication     DiversityIndication-RL-AdditionFailureFDD,
    sSDT-SupportIndicator   SSDT-SupportIndicator,
    minUL-SIR               UL-SIR,
    maxUL-SIR               UL-SIR,
    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 },
    ...
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining              Combining-RL-AdditionFailureFDD,
    nonCombining          NonCombining-RL-AdditionFailureFDD,
    ...
}

```



```

    IE-Extensions
    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 ::= {
    ...
}

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

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 ::= {
    ...
}

```

```

        sID-SupportIndicator          sID-SupportIndicator  OPTIONAL,
        closedLoopModel-SupportIndicator  ClosedLoopModel-SupportIndicator  OPTIONAL,
        closedLoopMode2-SupportIndicator  ClosedLoopMode2-SupportIndicator  OPTIONAL,
        iE-Extensions                  ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
        ...
    }

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

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

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                                C-ID,
    uARFCNforNt                         UARFCN,
    frameOffset                          FrameOffset          OPTIONAL,
    cellParameterID                      CellParameterID,
    syncCase                              SyncCase,
    timeSlot                              TimeSlot             OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot                          SCH-TimeSlot        OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    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}}
    ...
}

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

UnsuccessfulRL-InformationResponse ::= SEQUENCE {
    rL-ID                                RL-ID,
    cause                                 Cause,
    iE-Extensions                        ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-

```

```

-- .....
--
-- 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 {
    protocolIEs          ProtocolIE-Container    {{RadioLinkDeletionResponse-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkDeletionResponse-
Extensions}}
    OPTIONAL,
    ...
}

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

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

```

```

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 },
    ...
}

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.
}

```

```

DCH-AddItem-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 ::= {
    ...
}

```

```

    ::= {
        protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-
Extensions}}
        ...
    }

RadioLinkReconfigurationPrepareTDD-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-
InformationList-RL-ReconfPrepTDD  PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationList-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 },
    ...
}

UL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-
Information-RL-ReconfPrepTDD-IEs} }

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

UL-CCTrCH-Information-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS                TFCS          OPTIONAL,
    tFCI-Coding        TFCI-Coding    OPTIONAL,
    punctureLimit      PunctureLimit  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-Information-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-Information-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
Information-RL-ReconfPrepTDD-IEs} }

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

DL-CCTrCH-InformationItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS                TFCS          OPTIONAL,
    tFCI-Coding        TFCI-Coding    OPTIONAL,
    punctureLimit      PunctureLimit  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

    frameHandlingPriority          OPTIONAL,
    ul-FP-Mode                    OPTIONAL,
    toAWS                         OPTIONAL,
    toAWE                         OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                        DCH-ID,
    ul-CCTrCH-ID                  CCTrCH-ID,
    dl-CCTrCH-ID                  CCTrCH-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,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    iE-Extensions                 ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-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 ::= {
    ...
}

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

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

```

```

    PRESENCE optional , ,
    ...
}

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

RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-
InformationResponseItem-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID RL-ID,
    max-UL-SIR UL-SIR OPTIONAL,
    min-UL-SIR UL-SIR OPTIONAL,
    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 ::= {
    ...
}

```



```

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,
    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} }

```

```

transportLayer address          transportLayer address,
  iE-Extensions                 ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyFDD-
ExtIEs} } OPTIONAL,
  ...
}

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

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,
  dCHsToBeAdded                DCH-AddList-RL-ReconfReadyTDD          OPTIONAL,
  dCHsToBeModified             DCH-ModifyList-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-DPCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationListIEs-RL-
ReconfReadyTDD}}

UL-DPCH-InformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-
InformationListIE-RL-ReconfReadyTDD PRESENCE mandatory },
  ...
}

UL-DPCH-InformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-
InformationItem-RL-ReconfReadyTDD

UL-DPCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID DPCCH-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-InformationList-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationList-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,
  dl-DPCH-Information DL-DPCH-InformationList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

DL-DPCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationListIEs-RL-
ReconfReadyTDD}}

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

DL-DPCH-InformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-
InformationItem-RL-ReconfReadyTDD

```

```

reconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationList-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 ::= {
    ...
}

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

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

```

```

    },
    ...
}

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 ::= {
    { ID id-Cause          CRITICALITY ignore TYPE Cause          PRESENCE
    mandatory } |
    { ID id-RL-ReconfigurationFailureList-RL-ReconfFail CRITICALITY ignore TYPE RL-
    ReconfigurationFailureList-RL-ReconfFail PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    ...
}

RL-ReconfigurationFailureList-RL-ReconfFail ::= RL-IE-ContainerList0 { {RL-
ReconfigurationFailure-RL-ReconfFail-IEs} }

RL-ReconfigurationFailure-RL-ReconfFail-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailure-RL-ReconfFail CRITICALITY ignore TYPE RL-
    ReconfigurationFailure-RL-ReconfFail PRESENCE mandatory },
    ...
}

RL-ReconfigurationFailure-RL-ReconfFail ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { {RL-ReconfigurationFailure-RL-
    ReconfFail-ExtIEs} } OPTIONAL,
    ...
}

RL-ReconfigurationFailure-RL-ReconfFail-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

-- *****
--
-- RADIO LINK RECONFIGURATION CANCEL
--
-- *****

RadioLinkReconfigurationCancel ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{RadioLinkReconfigurationCancel-
    IEs}},

```

```

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

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

RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject  TYPE UL-DPCH-
    Information-RL-ReconfRqstFDD          PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DL-DPCH-
    Information-RL-ReconfRqstFDD          PRESENCE optional } |
    { ID id-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 },
    ...
}

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.
}

```

```

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 ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****

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

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IEs ::= {
    { ID id-AllowedQueuingTime             CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY notify  TYPE UL-CCTrCH-
InformationList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY notify  TYPE DL-CCTrCH-
InformationList-RL-ReconfRqstTDD PRESENCE optional } |

```

```

UL-CCTrCH-InformationList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-
InformationItem-RL-ReconfRqstTDD PRESENCE mandatory },
    ...
}

UL-CCTrCH-InformationItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    tFCS TFCS,
    iE-Extensions ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-
ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CCTrCH-InformationList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
InformationList-RL-ReconfRqstTDD-IEs} }

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

DL-CCTrCH-InformationItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    tFCS TFCS,
    iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-
ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-ModifyItem-
RL-ReconfRqstTDD

DCH-ModifyItem-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,
    ul-FP-Mode UL-FP-Mode OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

```



```

    iE-Extensions
    ul-FP-Mode
    toAWS
    toAWE
    ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-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}} OPTIONAL,
    ...
}

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-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

```

```

    ...
}

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 ::= {
    ...
}

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 {
    rL RL-InformationList-RL-FailureInd,
    rL-Set RL-Set-InformationList-RL-FailureInd,
    ...
}

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-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 {
  rL RL-InformationList-RL-RestoreInd,
  rL-Set RL-Set-InformationList-RL-RestoreInd,
  ...
}

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-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'
    { 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'
    ...
}

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,
    ...
}

```

```

--
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

```

```

        ul-CCH-InformationList-PhyChReconfRqstTDD,
        dl-CCH-InformationList-PhyChReconfRqstTDD,
        iE-Extensions
    } } OPTIONAL,
    ...
}

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

UL-CCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {UL-CCH-
InformationListIEs-PhyChReconfRqstTDD} }

UL-CCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCH-InformationListIE-PhyChReconfRqstTDD CRITICALITY reject TYPE UL-CCH-
InformationListIE-PhyChReconfRqstTDD PRESENCE mandatory } ,
    ...
}
UL-CCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCHs)) OF UL-CCH-
InformationItem-PhyChReconfRqstTDD

UL-CCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCH-ID CCH-ID,
    ul-DPCH-Information UL-DPCH-InformationList-PhyChReconfRqstTDD,
    iE-Extensions ProtocolExtensionContainer { {UL-CCH-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCH-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-CCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {DL-CCH-
InformationListIEs-PhyChReconfRqstTDD} }

DL-CCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {

```

```

PhyChReconfRqstTDD-ExtIEs; } OPTION L,
...
}

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}} OPTIONAL,
...
}

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

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

```



```

/
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
} |
  { 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 },
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind ::= SEQUENCE (SIZE (0..maxRNCinURA)) 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 ::= {
  ...
}

```

```

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

DownlinkSignallingTransferRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY ignore TYPE C-ID          PRESENCE
    mandatory } |
    { ID id-D-RNTI       CRITICALITY ignore TYPE D-RNTI       PRESENCE
    mandatory } |
    { ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE
    mandatory } |
    { ID id-D-RNTI-ReleaseIndication 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}}
    OPTIONAL,
    ...
}

RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI       CRITICALITY ignore TYPE D-RNTI       PRESENCE
    optional } |
    { ID id-RANAP-RelocationInformation CRITICALITY ignore TYPE RANAP-RelocationInformation
    PRESENCE optional },
    ...
}

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

-- *****
--
-- PAGING 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
}

```

```

Cell
...
}

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 } |
  { ID id-DedicatedMeasurementType          CRITICALITY reject  TYPE DedicatedMeasurementType
PRESENCE mandatorv } |

```

```

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,
  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 },
  ...
}

```

```

}

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,
    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 },
    ...
}

```

```

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  },
  ...
}

```

```

}

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

-- *****
--
-- DEDICATED MEASUREMENT INITIATION FAILURE
--
-- *****

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

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

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

-- *****
--
-- DEDICATED MEASUREMENT REPORT
--
-- *****

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

DedicatedMeasurementReport-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE
mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore TYPE
DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory } |
    { ID id-CFN                    CRITICALITY ignore TYPE CFN                    PRESENCE optional },
    ...
}

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
    rLs                RL-DM-Rprt,
    rLS                RL-Set-DM-Rprt,
    allRL              AllRL-DM-Rprt,
    allRLS             AllRL-Set-DM-Rprt,
    ...
}

RL-DM-Rprt ::= ProtocolIE-Container {{ RLIE-DM-Rprt }}

```

```

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 ::= {
    ...
}

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 ::= {

```



```

/
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,
    dedicatedMeasurementValue    DedicatedMeasurementValue,
    iE-Extensions            ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-
ExtIEs} } OPTIONAL,
    ...
}

RL-Set-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

-- *****
--
-- DEDICATED MEASUREMENT TERMINATION REQUEST
--
-- *****

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

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

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

-- *****
--
-- DEDICATED MEASUREMENT FAILURE INDICATION
--
-- *****

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

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST
-- *****

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

CommonTransportChannelResourcesReleaseRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI                CRITICALITY ignore  TYPE D-RNTI                PRESENCE
    mandatory } |
    { ID id-C-RNTI                CRITICALITY ignore  TYPE C-RNTI                PRESENCE
    optional   },
    ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES REQUEST
-- *****

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

CommonTransportChannelResourcesRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI                CRITICALITY reject  TYPE D-RNTI                PRESENCE
    mandatory } |
    { 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

```

```

INFOOPTIONALS-CCrCh-CiCh-ResourceRspFDD PRESENCE optional } |
  { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress
    PRESENCE optional } |
  { ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE
optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
  ...
}

FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
  priorityIndicatorAndInitialWindowSize PriorityIndicatorAndInitialWindowSizeList-CTCH-
ResourceRspFDD,
  iE-Extensions ProtocolExtensionContainer { {FACH-InfoForS-CCPCH-
CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-InfoForS-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 {
  fACH-PriorityIndicator FACH-PriorityIndicator,
  MAC-c-SDU-Lengths MAC-c-SDU-LengthList-CTCH-ResourceRspFDD,
  fACH-InitialWindowSize FACH-InitialWindowSize,
  iE-Extensions ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

MAC-c-SDU-LengthList-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-CTCH-
ResourceRspFDD }}

MAC-c-SDU-LengthListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-c-SDU-
LengthListIE-CTCH-ResourceRspFDD PRESENCE mandatory },
  ...
}

MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-
SDU-LengthItem-CTCH-ResourceRspFDD

MAC-c-SDU-LengthItem-CTCH-ResourceRspFDD ::= SEQUENCE {
  MAC-c-SDU-Length MAC-c-SDU-Length,
  iE-Extensions ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-CTCH-
ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD ::= SEQUENCE {
  priorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD,
  iE-Extensions          ProtocolExtensionContainer { {FACH-InfoForOptionals-CCPCH-CTCH-
ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-InfoForOptionals-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 {
  fACH-PriorityIndicator          FACH-PriorityIndicator,
  mAC-c-SDU-Lengths              MAC-c-SDU-LengthList-option-CTCH-ResourceRspFDD,
  fACH-InitialWindowSize         FACH-InitialWindowSize,
  iE-Extensions                 ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION
::= {
  ...
}

MAC-c-SDU-LengthList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-
option-CTCH-ResourceRspFDD }}

MAC-c-SDU-LengthListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-c-
SDU-LengthListIE-option-CTCH-ResourceRspFDD PRESENCE mandatory },
  ...
}

MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF
MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
  mAC-c-SDU-Length              MAC-c-SDU-Length,
  iE-Extensions                 ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-option-CTCH-
ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

```

```

CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI                CRITICALITY ignore  TYPE S-RNTI                PRESENCE
mandatory } |
    { ID id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD CRITICALITY ignore  TYPE FACH-
InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD PRESENCE mandatory } |
    { ID id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore  TYPE FACH-
InfoForOptionals-CCPCH-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 },
    ...
}

FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizes PriorityIndicatorAndInitialWindowSizeList-CTCH-
ResourceRspTDD,
    iE-Extensions ProtocolExtensionContainer { {FACH-InfoForS-CCPCH-
CoupledToPRACH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForS-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 {
    fACH-PriorityIndicator FACH-PriorityIndicator,
    mAC-c-SDU-Lengths MAC-c-SDU-LengthList-CTCH-ResourceRspTDD,
    fACH-InitialWindowSize FACH-InitialWindowSize,
    iE-Extensions ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-SDU-LengthList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-CTCH-
ResourceRspTDD }}

MAC-c-SDU-LengthListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD CRITICALITY ignore  TYPE MAC-c-SDU-
LengthListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
    ...
}

MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-
SDU-LengthItem-CTCH-ResourceRspTDD

```

```

    ul-IEs,
    secondaryCCPCHs      SecondaryCCPCHList-CTCH-ResourceRspTDD,
    iE-Extensions        ProtocolExtensionContainer { {FACH-InfoForOptionals-CCPCH-CTCH-
ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForOptionals-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-ResourceRspTDD    PRESENCE mandatory },
    ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF
SecondaryCCPCHItem-CTCH-ResourceRspTDD

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    tddChannelisationCode      TDD-ChannelisationCode,
    timeSlot                    TimeSlot,
    burstType                   BurstType,
    midambleShift              MidambleShift,
    tddPhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod           RepetitionPeriod,
    repetitionLength            RepetitionLength,
    priorityIndicatorAndInitialWindowSizeList  PriorityIndicatorAndInitialWindowSizeList-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 {
    fACHPriorityIndicator      FACH-PriorityIndicator,
    macCSDULengths           MAC-c-SDU-LengthList-option-CTCH-ResourceRspTDD,
    fACHInitialWindowSize     FACH-InitialWindowSize,
    iE-Extensions            ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION
::= {

```

```

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maximum(CcSDU-Length))) OF
MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    MAC-c-SDU-Length          MAC-c-SDU-Length,
    IE-Extensions            ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-option-CTCH-
ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

MAC-c-SDU-LengthItem-option-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 ::= {
    ...
}

-- *****
--
-- 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

```

```

        tGD,
        ul-DL-CompressedModeSelection
        compressedModeMethod
        gapPositionMode
        sN
        -- This IE is present if Gap position mode = 'flexible position'--
        dl-FrameType
        scramblingCodeChange
        -- This IE is present if Compressed mode method = 'SF/2' --
        powerControlMode
        powerResumeMode
        ul-DeltaSIR
        ul-DeltaSIRAfter
        iE-Extensions
PatternInformationItem-CompressedModePrep-ExtIEs } }
        ...
    }

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

```



```

-- 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 ::= {
    ...
}

-- *****
--
-- 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 --
    },
    ...
}

```

```
privateIES PrivateIE-Container {{privateMessage-IES}},
...
}
PrivateMessage-IEs RNSAP-PRIVATE-IEs ::= {
...
}
END
```

<b>CHANGE REQUEST</b>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>
<b>25.423</b>	<b>CR</b>	<b>130</b>
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>Current Version: 3.1.0</small>
<small>↑ CR number as allocated by MCC support team</small>		
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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:** Editorial Correction for RNSAP (IEs)

**Work item:**

<b>Category:</b>	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** Including the IE Type and References in Chapter 9.1 and re-shuffling the paragraphs for IE Chapter 9.2.

**Clauses affected:** 9.1, 9.2

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

## 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 COMMIT	9.1.41
COMPRESSED MODE CANCEL	9.1.42
ERROR INDICATION	9.1.43

## 9.1.2 Message Contents

### 9.1.2.1 Presence

An information element can be of the following *types*:

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

In case of an information element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. Each group may be also repeated within one message. The presence field of the information elements inside one group defines if the information element is mandatory, optional or conditional if the group is present.

### 9.1.2.2 Criticality

Each information element or Group of information elements may have a criticality information applied to it.

Following cases are possible:

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

## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	reject
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	reject
Allowed Queuing time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		<a href="#">9.2.2.53</a>		–	
>Min UL Channelisation Code Length	M		<a href="#">9.2.2.25</a>		–	
>Max Number of UL DPDCHs	C – CodeLen		<a href="#">9.2.2.24</a>		–	
>Puncture Limit	M		<a href="#">9.2.1.46</a>	For the UL.	–	
>UL Transport Format Combination Set	M		<a href="#">9.2.1.63</a>		–	
>UL DPCCH Slot Format	M		<a href="#">9.2.2.52</a>		–	
>Uplink SIR Target	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Diversity mode	M		<a href="#">9.2.2.8</a>		–	
>D Field Length	C-FB		<a href="#">9.2.2.5</a>		–	
>SSDT Cell ID Length	O		<a href="#">9.2.2.41</a>		–	
>S Field Length	O		<a href="#">9.2.2.36</a>		–	
<b>DL DPCH Information</b>		1			YES	reject
>Transport Format Combination Set	M		<a href="#">9.2.1.63</a>		–	
>DL DPCH Slot Format	M		<a href="#">9.2.2.9</a>		–	
>TFCI Signalling Mode	M		<a href="#">9.2.2.46</a>		–	
>TFCI Presence	C- SlotFormat		<a href="#">9.2.1.55</a>		–	
>Multiplexing Position	M		<a href="#">9.2.2.26</a>		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset <a href="#">9.2.2.30</a>	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset <a href="#">9.2.2.30</a>	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset <a href="#">9.2.2.30</a>	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		<a href="#">9.2.2.16</a>		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>DCH Combination Ind	O		<a href="#">9.2.1.15</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence Indicator	M		<a href="#">9.2.1.42</a>		–	
>UL FP Mode	M		<a href="#">9.2.1.67</a>		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
> QE-Selector	M		<a href="#">9.2.2.34</a>		–	
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
>DRAC control	M		<a href="#">9.2.2.13</a>		–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>C-ID	M		<a href="#">9.2.1.6</a>		–	
>Frame Offset	M		<a href="#">9.2.1.30</a>		–	
>Chip Offset	M		<a href="#">9.2.2.1</a>		–	
>Propagation Delay	O		<a href="#">9.2.2.33</a>		–	
>Diversity Control Field	C – NotFirstRL		<a href="#">9.2.2.6</a>		–	
>Initial DL TX Power	O		DL Power <a href="#">9.2.2.10</a>		–	
>Primary CPICH Ec/No	O		<a href="#">9.2.2.32</a>		–	
>SSDT Cell ID	O		<a href="#">9.2.2.40</a>		–	
>Transmit Diversity Indicator	C – Diversity mode		<a href="#">9.2.2.50</a>		–	

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 <b>RL Information</b> .
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.



## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	reject
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	reject
Allowed Queuing time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL CCTrCH Information</b>		1..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	M		<a href="#">9.2.1.63</a>	For the UL.	–	
>TFCI Coding	M		<a href="#">9.2.3.11</a>		–	
>Puncture Limit	M		<a href="#">9.2.1.46</a>		–	
<b>DL CCTrCH Information</b>		1..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>TFCI Coding	M		<a href="#">9.2.3.11</a>		–	
>Puncture Limit	M		<a href="#">9.2.1.46</a>		–	
>TDD TPC Downlink Step Size	M		<a href="#">9.2.3.10</a>		–	
<b>DCH Information</b>		1..<maxno of DCHs>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>CCTrCH ID	M		<a href="#">9.2.3.2</a>	UL CCTrCH in which the DCH is mapped	–	
>CCTrCH ID	M		<a href="#">9.2.3.2</a>	DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Ind	O		<a href="#">9.2.1.15</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence Indicator	M		<a href="#">9.2.1.42</a>		–	
>UL FP Mode	M		<a href="#">9.2.1.67</a>		–	
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>C-ID	M		<a href="#">9.2.1.6</a>		–	
>Frame Offset	M		<a href="#">9.2.1.30</a>		–	
>Primary CCPCH RSCP	O		<a href="#">9.2.3.5</a>		–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCH 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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	
CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		YES	ignore
CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		YES	ignore
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		<a href="#">9.2.2.15</a>	Corresponds to: $T_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>>Secondary CCPCH Slot Format	M		<a href="#">9.2.2.38</a>		–	
>>TFCI presence	C - SlotFormat		<a href="#">9.2.1.55</a>		–	
>>MultiplexingPosition	M		<a href="#">9.2.2.26</a>		–	
>>STTD Indicator	M		<a href="#">9.2.2.44</a>		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			<a href="#">9.2.1.64</a>	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M		<a href="#">9.2.2.4</a>		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M		<a href="#">9.2.2.20</a>		–	
> <b>DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>Diversity Indication	C-NotFirstRL		<a href="#">9.2.2.7</a>		–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>	Reference RL ID for the	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Non Combining or IE not present				combining "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		<a href="#">9.2.1.16</a>		–	
>>>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
>SSDT Support Indicator	M		<a href="#">9.2.2.43</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>> RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd [TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		–	
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
>>Per TDD Cell Information		0..<maxno ofTDDneig hbours>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		–	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		–	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		–	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		–	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		–	
Uplink SIR Target	O		Uplink SIR <a href="#">9.2.1.69</a>		YES	ignore
Downlink SIR Target	M		Uplink SIR <a href="#">9.2.1.69</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		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

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	ignore
CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		YES	ignore
CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
<b>&gt;UL CTrCH Information</b>		1..<maxno of CTrCHs>			GLOBAL	ignore
>>CTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;UL DPCH Information</b>		1..<Maxno of DPCHs>			EACH	ignore
>>> DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	M		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	M		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	M		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	M		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	M		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	M		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	M		<a href="#">9.2.1.55</a>		–	
<b>&gt;DL CTrCH Information</b>		1..<maxno of CTrCHs>			GLOBAL	ignore
>>CTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;DL DPCH Information</b>		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	M		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	M		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	M		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	M		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	M		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	M		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	M		<a href="#">9.2.1.55</a>		–	
<b>&gt;DCH Information Response</b>		1..<maxno of DCHs>		Only one DCH per set of co-ordinated DCHs shall	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				be included.		
>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
<b>&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighboringRNCs>			EACH	ignore
>>RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxno ofFDDneighbours>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd [TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		–	
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneighbours>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		–	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		–	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		–	
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		–	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		–	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		–	
Uplink SIR Target	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
Downlink SIR Target	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

<b>Condition</b>	<b>Explanation</b>
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
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
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULTs	Maximum number of Uplink time slots per Radio Link

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	ignore
CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		YES	ignore
CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1...&lt;maxn oofRLs&gt;</i>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Cause	M		<a href="#">9.2.1.5</a>		–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxno ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxno ofDLCode s</i>			GLOBAL	ignore
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>Diversity Indication	M		<a href="#">9.2.2.7</a>		–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>	Reference RL ID for the combining	–	
>>Non Combining or IE not present				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
>SSDT Support Indicator	M		<a href="#">9.2.2.43</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxnoof neighbourin gRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
<b>&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneig</i>				



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>hbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd [TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		–	
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneig hbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		–	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		–	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		–	
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		–	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		–	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		–	
Uplink SIR Target	O		<a href="#">9.2.1.69</a>	Uplink SIR	–	
Downlink SIR Target	M		<a href="#">9.2.1.69</a>	Uplink SIR	–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

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

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

## 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>Unsuccessful RL Information Response</b>		1			YES	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Cause	M		<a href="#">9.2.1.5</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 9.1.6 RADIO LINK ADDITION REQUEST

## 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Uplink SIR Target	M		Uplink SIR <a href="#">9.2.1.69</a>		YES	reject
<b>RL Information</b>		1..<maxn oofRLs- 1>			EACH	notify
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>C-Id	M		<a href="#">9.2.1.6</a>		–	
>Frame Offset	M		<a href="#">9.2.1.30</a>		–	
>Chip Offset	M		<a href="#">9.2.2.1</a>		–	
>Diversity Control Field	M		<a href="#">9.2.2.6</a>		–	
>Primary CPICH Ec/No	O		<a href="#">9.2.2.32</a>		–	
>SSDT Cell Identity	O		<a href="#">9.2.2.40</a>		–	
>Transmit Diversity Indicator	C – Diversity mode		<a href="#">9.2.2.50</a>		–	

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"

## 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>C-Id	M		<a href="#">9.2.1.6</a>		–	
>Frame Offset	M		<a href="#">9.2.1.30</a>		–	
>Diversity Control Field	M		<a href="#">9.2.2.6</a>		–	
>Primary CCPCH RSCP	O		<a href="#">9.2.3.5</a>		–	

## 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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		<a href="#">9.2.2.15</a>	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>>Secondary CCPCH Slot Format	M		<a href="#">9.2.2.38</a>		–	
>>TFCl presence	C - SlotFormat		<a href="#">9.2.1.55</a>		–	
>>MultiplexingPosition	M		<a href="#">9.2.2.26</a>		–	
>>STTD Indicator	M		<a href="#">9.2.2.44</a>		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
TFS			<a href="#">9.2.1.64</a>	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M		<a href="#">9.2.2.21</a>		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M		<a href="#">9.2.2.20</a>		–	
> <b>DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>Diversity Indication	M		<a href="#">9.2.2.7</a>		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>	Reference RL-Id	–	
>>> <i>Non combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
>SSDT Support Indicator	M		<a href="#">9.2.2.43</a>		–	
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd [TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		–	
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		–	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		–	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		–	
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		–	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		–	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

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

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

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
<b>&gt;UL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;UL DPCH Information</b>		1..<maxnoOf fDPCHs>			EACH	ignore
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	M		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	M		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	M		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	M		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	M		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	M		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	M		<a href="#">9.2.1.55</a>		–	
<b>&gt;DL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;DL DPCH Information</b>		1..<maxnoOf fDPCHs>			EACH	ignore
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	M		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	M		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	M		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	M		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	M		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	M		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	M		<a href="#">9.2.1.55</a>		–	
>Diversity Indication	M		<a href="#">9.2.2.7</a>		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>	Reference RL	–	
>> <i>Non combining</i>					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>>>Transport Layer	M		<a href="#">9.2.1.62</a>		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Address						
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd [TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		–	
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		–	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		–	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		–	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		–	
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		–	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		–	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		–	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

<b>Condition</b>	<b>Explanation</b>
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

<b>Range Bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link



## 9.1.8 RADIO LINK ADDITION FAILURE

## 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>Unsuccessful RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Cause	M		<a href="#">9.2.1.5</a>		–	
<b>Successful RL Information Response</b>		0..<maxnoof RLS-2>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>SAI	M		<a href="#">9.2.1.52</a>		–	
>UL Interference Level	M		<a href="#">9.2.1.68</a>		–	
<b>&gt;DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL scrambling code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL channelisation code Number	M		<a href="#">9.2.2.14</a>		–	
>Diversity Indication	M		<a href="#">9.2.2.7</a>		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>	Reference RL-Id	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
>SSDT Support Indicator	M		<a href="#">9.2.2.43</a>		–	
>Minimum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Uplink SIR	M		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Maximum Allowed UL Tx Power	M		<a href="#">9.2.1.35</a>		–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		<a href="#">9.2.1.50</a>		–	
>>CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		–	
>>CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxnoof FDD neighbours>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nd		

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[TS25.104]		
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		-	
>>>Primary Scrambling Code	M		<a href="#">9.2.1.45</a>		-	
>>>Primary CPICH Power	O		<a href="#">9.2.1.44</a>		-	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>			
>>>Tx diversity Indicator	O		<a href="#">9.2.2.50</a>			
>>>STTD Support Indicator	O		<a href="#">9.2.2.45</a>			
>>>Closed Loop mode1 Support Indicator	O		<a href="#">9.2.2.2</a>			
>>>Closed Loop mode2 Support Indicator	O		<a href="#">9.2.2.3</a>			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>				
>>>C-Id	M		<a href="#">9.2.1.6</a>			
>>>UARFCN	M		<a href="#">9.2.1.66</a>	Corresponds to Nt [TS25.105]	-	
>>>Frame Offset	O		<a href="#">9.2.1.30</a>		-	
>>>Cell Parameter ID	M		<a href="#">9.2.1.8</a>		-	
>>>Sync Case	M		<a href="#">9.2.1.54</a>		-	
>>>Time Slot	C-Case1		<a href="#">9.2.1.56</a>		-	
>>>SCH Time Slot	C-Case2		<a href="#">9.2.1.51</a>		-	
>>>Cell Individual Offset	O		<a href="#">9.2.1.7</a>		-	
>>>DPCH Constant Value	O		<a href="#">9.2.1.23</a>		-	
>>>PCCPCH Power	O		<a href="#">9.2.1.43</a>		-	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

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

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

## 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>Unsuccessful RL Information Response</b>		1			YES	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Cause	M		<a href="#">9.2.1.5</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 9.1.9 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information</b>		1..<maxno ofRLs>			EACH	notify
>RL ID	M		<a href="#">9.2.1.49</a>		–	

Range bound	Explanation
MaxnoofRLs	Maximum number of radio links for one UE

## 9.1.10 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Allowed Queuing Time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		<a href="#">9.2.2.53</a>		–	
>UL SIR Target	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Min UL Channelisation Code Length	O		<a href="#">9.2.2.25</a>		–	
>Max Number of UL DPDCHs	C – CodeLen		<a href="#">9.2.2.24</a>		–	
>Puncture Limit	O		<a href="#">9.2.1.46</a>	For the UL.	–	
>TFCS	O		<a href="#">9.2.1.63</a>	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		<a href="#">9.2.2.52</a>		–	
>SSDT Cell Identity Length	O		<a href="#">9.2.2.41</a>		–	
>S-Field Length	O		<a href="#">9.2.2.36</a>		–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		<a href="#">9.2.1.63</a>	TFCS for the DL.	–	
>DL DPCH Slot Format	O		<a href="#">9.2.2.9</a>		–	
>TFCI Signalling Mode	O		<a href="#">9.2.2.46</a>		–	
>TFCI Presence	C- SlotFormat		<a href="#">9.2.1.55</a>		–	
>MultiplexingPosition	O		<a href="#">9.2.2.26</a>		–	
<b>DCHs to Modify</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the DL.	–	
>Allocation/Retention Priority	O		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	O		<a href="#">9.2.1.29</a>		–	
>UL FP Mode	O		<a href="#">9.2.1.67</a>		–	
>ToAWS	O		<a href="#">9.2.1.58</a>		–	
>ToAWE	O		<a href="#">9.2.1.57</a>		–	
>DRAC Control	O		<a href="#">9.2.2.13</a>		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>DCH Combination Indicator	O		<a href="#">9.2.1.15</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence Indicator	M		<a href="#">9.2.1.42</a>		–	
>UL FP Mode	M		<a href="#">9.2.1.67</a>		–	
>QE-Selector	M		<a href="#">9.2.2.34</a>		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
>DRAC Control	M		<a href="#">9.2.2.13</a>		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
<b>RL Information</b>		<i>0..&lt;maxnoof RLs&gt;</i>			EACH	reject
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>SSDT Indication	O		<a href="#">9.2.2.41</a>		–	
>SSDT Cell Identity	C - SSDTIndON		<a href="#">9.2.2.40</a>		–	

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.

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Allowed Queuing Time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL CCTrCH Information</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	O		<a href="#">9.2.1.63</a>	For the UL.	–	
>TFCI Coding	O		<a href="#">9.2.3.11</a>		–	
>Puncture Limit	O		<a href="#">9.2.1.40</a>		–	
<b>DL CCTrCH Information</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	O		<a href="#">9.2.1.63</a>	For the DL.	–	
>TFCI Coding	O		<a href="#">9.2.3.11</a>		–	
>Puncture Limit	O		<a href="#">9.2.1.46</a>		–	
<b>DCHs to Modify</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>CCTrCH Id	O		<a href="#">9.2.3.2</a>	UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH Id	O		<a href="#">9.2.3.2</a>	DL CCTrCH in which the DCH is mapped	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the DL.	–	
>Allocation/Retention Priority	O		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	O		<a href="#">9.2.1.29</a>		–	
>UL FP Mode	O		<a href="#">9.2.1.67</a>		–	
>ToAWS	O		<a href="#">9.2.1.58</a>		–	
>ToAWE	O		<a href="#">9.2.1.57</a>		–	
<b>DCHs to Add</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>CCTrCH Id	M		<a href="#">9.2.3.2</a>	UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH Id	M		<a href="#">9.2.3.2</a>	DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Indicator	O		<a href="#">9.2.1.15</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence	M		<a href="#">9.2.1.42</a>		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Indicator						
>UL FP Mode	M		<a href="#">9.2.1.67</a>		–	
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs 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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Maximum Uplink SIR	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Minimum Uplink SIR	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		<a href="#">9.2.2.15</a>	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>>Secondary CCPCH Slot Format	M		<a href="#">9.2.2.38</a>		–	
>>TFCl presence	C - SlotFormat		<a href="#">9.2.1.55</a>		–	
>>MultiplexingPosition	M		<a href="#">9.2.2.26</a>		–	
>>STTD Indicator	M		<a href="#">9.2.2.44</a>		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			<a href="#">9.2.1.64</a>	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG REP	M		<a href="#">9.2.2.21</a>		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB SG POS	M		<a href="#">9.2.2.20</a>		–	
<b>&gt;Downlink Code Information</b>		<i>0..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
<b>&gt;DCH to be Added</b>		<i>0..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall	GLOBAL	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				be included. The IE group shall be included only once per DCH per set of combined RLs.		
>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
<b>&gt;DCH to be Modified</b>		<i>0..&lt;maxno ofDCHs&gt;</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		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		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

## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information Response</b>		0..1			YES	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Maximum Uplink SIR	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
>Minimum Uplink SIR	O		Uplink SIR <a href="#">9.2.1.69</a>		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;UL DPCH Information</b>		1..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	O		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	O		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	O		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	O		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	O		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	O		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	O		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	O		<a href="#">9.2.1.55</a>		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;DL DPCH Information</b>		1..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	O		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	O		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	O		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	O		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	O		<a href="#">9.2.3.9</a>		–	
>>> Repetition Period	O		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	O		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	O		<a href="#">9.2.1.55</a>		–	
<b>&gt;DCH to be Added</b>		0..<maxnoof DCHs>		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		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
<b>&gt;DCH to be Modified</b>		0..<maxnoof DCHs>		Only one DCH per set of co-	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				ordinated DCHs shall be included.  The IE group shall be included only once per DCH per set of combined RLs.		
>>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.

### 9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CFN	M		<a href="#">9.2.1.9</a>		YES	ignore

### 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore
<b>RLs Causing Reconfiguration Failure</b>		<i>0..&lt;maxnoof RLs&gt;</i>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Cause	M		<a href="#">9.2.1.5</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	

## 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		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Allowed Queuing Time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL DPCH Information</b>		<i>0..1</i>			YES	reject
>TFCS	O		<a href="#">9.2.1.63</a>	TFCS for the UL.	–	
<b>DL DPCH Information</b>		<i>0..1</i>			YES	reject
>TFCS	O		<a href="#">9.2.1.63</a>	TFCS for the DL.	–	
>TFCI Signalling Mode	O		<a href="#">9.2.2.46</a>		–	
<b>DCHs to Modify</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the DL.	–	
>Allocation/Retention Priority	O		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	O		<a href="#">9.2.1.29</a>		–	
>UL FP Mode	O		<a href="#">9.2.1.67</a>		–	
>ToAWS	O		<a href="#">9.2.1.58</a>		–	
>ToAWE	O		<a href="#">9.2.1.57</a>		–	
>DRAC Control	O		<a href="#">9.2.2.13</a>		–	
<b>DCHs to add</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>DCH Combination Ind	O		<a href="#">9.2.1.15</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence Indicator	M		<a href="#">9.2.1.42</a>		–	
>UL FP mode	M		<a href="#">9.2.1.67</a>		–	
>QE-Selector	M		<a href="#">9.2.2.34</a>		–	
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
>DRAC Control	M		<a href="#">9.2.2.13</a>		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	

<b>Range Bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCHs for a UE.

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Allowed Queuing Time	O		<a href="#">9.2.1.2</a>		YES	reject
<b>UL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	M		<a href="#">9.2.1.63</a>		–	
<b>DL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
>TFCS	M		<a href="#">9.2.1.63</a>		–	
<b>DCHs to Modify</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>CCTrCH ID	O		<a href="#">9.2.3.2</a>	UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	O		<a href="#">9.2.3.2</a>	DL CCTrCH in which the DCH is mapped	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	O		<a href="#">9.2.1.64</a>	For the DL.	–	
>Allocation/Retention Priority	O		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	O		<a href="#">9.2.1.29</a>		–	
>UL FP Mode	O		<a href="#">9.2.1.67</a>		–	
>ToAWS	O		<a href="#">9.2.1.58</a>		–	
>ToAWE	O		<a href="#">9.2.1.57</a>		–	
<b>DCHs to Add</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	
>Limited Power Increase	M		<a href="#">9.2.1.33</a>		–	
>Tr Ch Source Statistics Descriptor	M		<a href="#">9.2.1.65</a>		–	
>CCTrCH ID	M		<a href="#">9.2.3.2</a>	UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	M		<a href="#">9.2.3.2</a>	DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Ind	O		<a href="#">9.2.1.15</a>		–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the UL.	–	
>Transport Format Set	M		<a href="#">9.2.1.64</a>	For the DL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the UL.	–	
>BLER	M		<a href="#">9.2.1.3</a>	For the DL.	–	
>Allocation/Retention Priority	M		<a href="#">9.2.1.1</a>		–	
>Frame Handling Priority	M		<a href="#">9.2.1.29</a>		–	
>Payload CRC Presence Indicator	M		<a href="#">9.2.1.42</a>		–	
>UL FP Mode	M		<a href="#">9.2.1.67</a>		–	
>ToAWS	M		<a href="#">9.2.1.58</a>		–	
>ToAWE	M		<a href="#">9.2.1.57</a>		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		<a href="#">9.2.1.16</a>		–	

<b>Range Bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.

## 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M		<a href="#">9.2.1.49</a>		–	
>Maximum Uplink SIR	O		<a href="#">9.2.1.69</a> Uplink SIR		–	
>Minimum Uplink SIR	O		<a href="#">9.2.1.69</a> Uplink SIR		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		<a href="#">9.2.2.15</a>	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>>Secondary CCPCH Slot Format	M		<a href="#">9.2.2.38</a>		–	
>>TFCl presence	C - SlotFormat		<a href="#">9.2.1.55</a>		–	
>>MultiplexingPosition	M		<a href="#">9.2.2.26</a>		–	
>>STTD Indicator	M		<a href="#">9.2.2.44</a>		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			<a href="#">9.2.1.64</a>	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG REP	M		<a href="#">9.2.2.21</a>		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB SG POS	M		<a href="#">9.2.2.20</a>		–	
<b>&gt;DCH to be Added</b>		<i>0..&lt;maxno ofDCHs&gt;</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		<a href="#">9.2.1.16</a>		–	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
<b>&gt;DCH to be Modified</b>		<i>0..&lt;maxno ofDCHs&gt;</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		<a href="#">9.2.1.16</a>		–	
>>Binding ID	M		<a href="#">9.2.1.3</a>		–	
>>Transport Layer Address	M		<a href="#">9.2.1.62</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		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.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

### 9.1.18 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CHOICE <i>Reporting Object</i>	M			Object for which the Failure shall be reported.	–	
>"RL"					–	
<b>&gt;&gt;RL Information</b>	M	<i>1 .. &lt;MaxnoofRLs&gt;</i>			EACH	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>		–	
>>>Cause	M		<a href="#">9.2.1.5</a>		–	
>"RL Set"					–	
<b>&gt;&gt;RL Set Information</b>		<i>1 .. &lt;MaxnoofRL Sets&gt;</i>			EACH	ignore
>>>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>>>Cause	M		<a href="#">9.2.1.5</a>		–	

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

### 9.1.19 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CHOICE Reporting Object	M			Object for which the Restoration shall be reported.	–	
>"RL"					–	
>>RL Information		1 .. <Maxno ofRLs>			EACH	ignore
>>>RL ID	M		<a href="#">9.2.1.49</a>		–	
>"RL Set"					–	
>>RL Set Information		1 .. <Maxno ofRLSet s>			EACH	ignore
>>>RL Set ID	M		<a href="#">9.2.2.35</a>		–	

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

### 9.1.20 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Power Adjustment Type	M		<a href="#">9.2.2.28</a>		YES	ignore
DL Reference Power	C- Common		DL Power <a href="#">9.2.2.10</a>		–	
>DL Reference Power Information	C- Individual	1..<maxno ofRLs>			GLOBAL	ignore
>>RL ID	M		<a href="#">9.2.1.49</a>		–	
>>DL Reference Power	M		DL Power <a href="#">9.2.2.10</a>		–	
Max Adjustment Step	C- CommonOr Individual		<a href="#">9.2.2.23</a>		–	
Max. Adjustment Period	C- CommonOr Individual		<a href="#">9.2.2.22</a>		–	

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or 'Individual'

Range Bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.

## 9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

### 9.1.21.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		<a href="#">9.2.1.49</a>		–	
<b>&gt;DL Code Information</b>		1 .. <maxnoof DLCodes>			GLOBAL	notify
>>DL Scrambling Code	M		<a href="#">9.2.2.11</a>		–	
>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	

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

## 9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		<a href="#">9.2.1.49</a>		–	
<b>&gt;UL CCTrCH Information</b>		1.. <maxnoof CCTrCHs>			GLOBAL	reject
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;UL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	notify
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	O		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	O		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	O		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	O		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	O		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	O		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	O		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	O		<a href="#">9.2.1.55</a>		–	
<b>&gt;DL CCTrCH Information</b>		1..<maxno ofCCTrCH s>			GLOBAL	reject
>>CCTrCH ID	M		<a href="#">9.2.3.2</a>		–	
<b>&gt;&gt;DL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	notify
>>>DPCH ID	M		<a href="#">9.2.3.3</a>		–	
>>>TDD Channelisation Code	O		<a href="#">9.2.3.8</a>		–	
>>>Burst Type	O		<a href="#">9.2.3.1</a>		–	
>>>Midamble Shift	O		<a href="#">9.2.3.4</a>		–	
>>>Time Slot	O		<a href="#">9.2.1.56</a>		–	
>>>TDD Physical Channel Offset	O		<a href="#">9.2.3.9</a>		–	
>>>Repetition Period	O		<a href="#">9.2.3.7</a>		–	
>>>Repetition Length	O		<a href="#">9.2.3.6</a>		–	
>>>TFCI Presence	O		<a href="#">9.2.1.55</a>		–	

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

## 9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CFN	M		<a href="#">9.2.1.9</a>		YES	reject
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	reject

### 9.1.23 PHYSICAL CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

### 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
UC-ID	M		<a href="#">9.2.1.71</a>		YES	ignore
SAI	M		<a href="#">9.2.1.52</a>		YES	ignore
C-RNTI	M		<a href="#">9.2.1.14</a>		YES	ignore
S-RNTI	M		<a href="#">9.2.1.54</a>		YES	ignore
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	ignore
L3 Information	M		<a href="#">9.2.1.32</a>		YES	ignore
CN PS Domain Identifier	O		<a href="#">9.2.1.12</a>		YES	ignore
CN CS Domain Identifier	O		<a href="#">9.2.1.11</a>		YES	ignore
URA ID	M		<a href="#">9.2.1.70</a>		YES	ignore
Multiple URAs Indicator	M		<a href="#">9.2.1.41</a>		YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCinURA-1>			GLOBAL	ignore
>RNC-Id	M		<a href="#">9.2.1.50</a>		–	

Range bound	Explanation
MaxRNCinURA	Maximum number of RNC in one URA

### 9.1.25 DOWNLINK SIGNALLING TRANSFER REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
C-Id	M		<a href="#">9.2.1.6</a>		YES	ignore
D-RNTI	M		<a href="#">9.2.1.24</a>		YES	ignore
L3 Information	M		<a href="#">9.2.1.32</a>		YES	ignore
D-RNTI Release Indication	M		<a href="#">9.2.1.25</a>		YES	ignore

### 9.1.26 RELOCATION COMMIT

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	O		<a href="#">9.2.1.24</a>		YES	ignore
RANAP Relocation Information	O		<a href="#">9.2.1.47</a>		YES	ignore

## 9.1.27 PAGING REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CHOICE <i>paging area</i>					YES	ignore
>"URA"					YES	ignore
>>URA-Id	M		<a href="#">9.2.1.70</a>		–	
>"Cell"					YES	ignore
>>C-Id	M		<a href="#">9.2.1.6</a>		–	
SRNC-Id	M		RNC-Id <a href="#">9.2.1.50</a>		YES	ignore
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	ignore
IMSI	M		<a href="#">9.2.1.31</a>		–	
DRX Cycle Length Coefficient	M		<a href="#">9.2.1.26</a>		YES	ignore

## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	reject
Dedicated Measurement Object Type	M		<a href="#">9.2.1.17</a>		YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>					YES	ignore
>"RL"					YES	reject
>>RL Information		1..<maxn oofRLs>			EACH	reject
>>>RL-Id	M		<a href="#">9.2.1.49</a>		–	
>>>DPCH Id	O		<a href="#">9.2.3.3</a>		–	
>"RLS"					YES	reject
>>RL Information		1..<maxn oofRLSet s>			EACH	reject
>>>RL-Set-id	M		<a href="#">9.2.2.35</a>		–	
Dedicated Measurement Type	M		<a href="#">9.2.1.18</a>		YES	reject
Measurement Filter Coefficient	O		<a href="#">9.2.1.36</a>		YES	reject
Report Characteristics	M		<a href="#">9.2.1.48</a>		YES	reject

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs a measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on.

## 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction Id	M		<a href="#">9.2.1.59</a>	Are both transaction id and Measurement id needed ?	–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
<b>&gt;&gt;RL Information</b>		<i>1..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>>>RL-Id	M		<a href="#">9.2.1.49</a>		–	
>>>DPCH Id	O		<a href="#">9.2.3.3</a>		–	
>>>Dedicated Measurement Value	M		<a href="#">9.2.1.19</a>		–	
>"RLS" or "ALL RLS"					YES	ignore
<b>&gt;&gt;RL Set Information</b>		<i>1..&lt;maxno ofRLSets&gt;</i>			EACH	ignore
>>>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>>>Dedicated Measurement Value	M		<a href="#">9.2.1.19</a>		–	
CFN	O		<a href="#">9.2.1.9</a>	Dedicated Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

## 9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	ignore
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"						
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL-Id	M		<a href="#">9.2.1.49</a>		–	
>>>DPCH Id	O		<a href="#">9.2.3.3</a>		–	
>>>Dedicated Measurement Value	M		<a href="#">9.2.1.19</a>		–	
>"RLS" or "ALL RLS"					–	
>>RL Set Information		1..<maxnoofRLSets>			–	
>>>RL Set ID	M		<a href="#">9.2.2.35</a>		–	
>>>Dedicated Measurement Value	M		<a href="#">9.2.1.19</a>		–	
CFN	O		<a href="#">9.2.1.9</a>	Dedicated Measurement Time Reference	YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

## 9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	ignore

## 9.1.33 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Measurement Id	M		<a href="#">9.2.1.37</a>		YES	ignore
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore



### 9.1.34 COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	M		<a href="#">9.2.1.24</a>		YES	ignore
C-RNTI	O		<a href="#">9.2.1.14</a>	Release of an individual C-RNTI.	YES	ignore

### 9.1.35 COMMON TRANSPORT CHANNEL RESOURCES REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
D-RNTI	M		<a href="#">9.2.1.25</a>		YES	reject
Transport Bearer Request Indicator	M		<a href="#">9.2.1.61</a>	Request a new transport bearer or to use an existing bearer for the user plane.	YES	reject
Transport Bearer ID	M		<a href="#">9.2.1.60</a>	Indicates the lur transport bearer to be used for the user plane.	YES	reject

## 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

## 9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	ignore
<b>FACH Info for S-CCPCH coupled to PRACH or PCPCH</b>		1			YES	ignore
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		<a href="#">9.2.1.28</a>		–	
<b>&gt;&gt;MAC-c SDU Length</b>		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M		<a href="#">9.2.1.34</a>		–	
>>FACH Initial Window Size	M		<a href="#">9.2.1.27</a>		–	
<b>FACH Info for optional S-CCPCH</b>		0..1			YES	ignore
>FDD S-CCPCH Offset	M		<a href="#">9.2.2.15</a>	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [7]	–	
>DL Scrambling Code	M		<a href="#">9.2.2.8</a>		–	
>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		–	
>TFCS	M		<a href="#">9.2.1.63</a>	For the DL.	–	
>Secondary CCPCH Slot Format	M		<a href="#">9.2.2.38</a>		–	
>MultiplexingPosition	M		<a href="#">9.2.2.26</a>		–	
>STTD Indicator	M		<a href="#">9.2.2.44</a>		–	
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		<a href="#">9.2.1.28</a>		–	
<b>&gt;&gt;MAC-c SDU Length</b>		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M		<a href="#">9.2.1.34</a>		–	
>>FACH Initial Window Size	M		<a href="#">9.2.1.27</a>		–	
Transport Layer Address	O		<a href="#">9.2.1.62</a>		YES	ignore
Binding Identity	O		<a href="#">9.2.1.3</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

Range Bound	Explanation
MaxNbMACcSDULength	Maximum number of different MAC-c SDU Lengths.

## 9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	ignore
<b>FACH Info for S-CCPCHs coupled to PRACH</b>		1			YES	ignore
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1.. 16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		<a href="#">9.2.1.28</a>		–	
<b>&gt;&gt;&gt;MAC-c SDU Length</b>		1..< MaxNbMA CcSDULen gth>			GLOBAL	ignore
>>>>MAC-c SDU Length	M		<a href="#">9.2.1.34</a>		–	
>>FACH Initial Window Size	M		<a href="#">9.2.1.27</a>		–	
<b>FACH Info for optional group of S-CCPCHs</b>		0.. 1			YES	ignore
>TFCS	M		<a href="#">9.2.1.63</a>	For DL CCTrCH supporting several Secondary CCPCHs	–	
<b>&gt;Secondary CCPCH</b>	M	1.. <MaxnoofS CCPCHs>			GLOBAL	ignore
>>TDD Channelisation Code	M		<a href="#">9.2.2.8</a>		–	
>>Time Slot	M		<a href="#">9.2.1.56</a>		–	
>>Burst Type	M		<a href="#">9.2.3.1</a>		–	
>>Midamble shift	M		<a href="#">9.2.3.4</a>		–	
>>TDD Physical Channel Offset	M		<a href="#">9.2.3.9</a>		–	
>>Repetition Period	M		<a href="#">9.2.3.7</a>		–	
>>Repetition Length	M		<a href="#">9.2.3.6</a>		–	
<b>&gt;&gt;&gt;Priority Indicator &amp; Initial Window Size</b>		1.. 16		Provide Information for each priority class used	GLOBAL	ignore
>>>>FACH Priority Indicator	M		<a href="#">9.2.1.28</a>		–	
<b>&gt;&gt;&gt;&gt;MAC-c SDU Length</b>		1..< MaxNbMA CcSDULen gth>			GLOBAL	ignore
>>>>>MAC-c SDU Length	M		<a href="#">9.2.1.34</a>		–	
>>>>FACH Initial Window Size	M		<a href="#">9.2.1.27</a>		–	
>>>>Transport Layer Address	O		<a href="#">9.2.1.62</a>		YES	ignore
>>>>Binding Identity	O		<a href="#">9.2.1.3</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

Range Bound	Explanation
MaxNbMACcSDULength	Maximum number of different MAC-c SDU Lengths.
MaxnoofSCCPCHs	TBD

### 9.1.37 COMMON TRANSPORT CHANNEL RESOURCES FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
S-RNTI	M		<a href="#">9.2.1.53</a>		YES	ignore
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

### 9.1.38 COMPRESSED MODE PREPARE [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type			<a href="#">9.2.1.40</a>		YES	reject
Transaction ID			<a href="#">9.2.1.59</a>		–	
<b>CM Pattern Information</b>		1 to 8		Range defined in [9]	EACH	reject
>CFN Offset	M		<a href="#">9.2.1.10</a>		–	
>TGP1	M		Gap Period <a href="#">9.2.2.18</a>	Applies only to the first and all the subsequent odd gaps if TGP2 is present, see ref. [10].	–	
>TGP2	O		Gap Period <a href="#">9.2.2.18</a>		–	
>TGL	M		<a href="#">9.2.2.49</a>		–	
>TGD	M		<a href="#">9.2.2.47</a>		–	
>PD	M		<a href="#">9.2.2.27</a>		–	
>UL/DL Compressed Mode Selection	M		<a href="#">9.2.2.51</a>		–	
>Compressed Mode Method	M		<a href="#">9.2.2.4</a>		–	
>Gap Position Mode	M		<a href="#">9.2.2.18</a>		–	
>SN	C-Flex		<a href="#">9.2.2.39</a>		–	
>Downlink Frame Type	M		<a href="#">9.2.2.12</a>		–	
>Scrambling Code Change	C-SF/2		<a href="#">9.2.2.37</a>		–	
>Power Control Mode	M		<a href="#">9.2.2.29</a>		–	
>Power Resume Mode	M		<a href="#">9.2.2.31</a>		–	
>Uplink Delta SIR	M		<a href="#">9.2.2.54</a>		–	
>Uplink Delta SIR After	M		<a href="#">9.2.2.55</a>		–	

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]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 9.1.40 COMPRESSED MODE FAILURE [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	reject
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
Cause	M		<a href="#">9.2.1.5</a>		YES	ignore
Criticality Diagnostics	O		<a href="#">9.2.1.13</a>		YES	ignore

## 9.1.41 COMPRESSED MODE COMMIT [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	
CFN	M		<a href="#">9.2.1.9</a>		YES	ignore

## 9.1.42 COMPRESSED MODE CANCEL [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction ID	M		<a href="#">9.2.1.59</a>		–	

## 9.1.43 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		<a href="#">9.2.1.40</a>		YES	ignore
Transaction Id	M		<a href="#">9.2.1.59</a>		–	
Cause	C_ifalone		<a href="#">9.2.1.5</a>		YES	ignore
Criticality Diagnostics	C_ifalone		<a href="#">9.2.1.13</a>		YES	ignore

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

## 9.2 Information Element Functional Definition and Contents

### 9.2.1 Common Parameters

This subclause contains parameters that are common to FDD and TDD.

#### 9.2.1.1 Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of transport channel resources in DRNS. DRNS may use the Allocation/Retention priority information of the transport channels composing the RL to prioritise requests for RL Setup/addition and reconfiguration. In similar way, DRNS may use the allocation/Retention priority information of the transport channels composing the RL to prioritise which RL shall be set to failure, in case prioritisation is possible

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

#### 9.2.1.2 Allowed Queuing Time

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

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

#### 9.2.1.3 Binding ID

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Binding ID			Octetstring (1..4,...)	

#### 9.2.1.4 BLER

This Block Error Rate defines the target radio interface Transport Block Error Rate of the transport channel . BLER is used by the DRNS to determine the needed SIR targets, for admission control and power management reasons.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
BLER			INTEGER (-63..0)	Step 0.1. (Range -6.3...0). It is the Log10 of the BLER

#### 9.2.1.5 Cause

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
<i>&gt;Radio Network Layer</i>				
<i>&gt;&gt;Radio Network Layer Cause</i>	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,...)	
<i>&gt;Transport Layer</i>				
<i>&gt;&gt;Transport Layer Cause</i>	M		ENUMERATED (Transport link failure, Transmission port not available, Unspecified,...)	
<i>&gt;Protocol</i>				
<i>&gt;&gt;Protocol Cause</i>			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>&gt;Misc</i>				
<i>&gt;&gt;Miscellaneous Cause</i>	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

### 9.2.1.6 Cell Identifier (C-Id)

The C-ID (Cell Identifier) is the identifier of a cell in one RNS.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
C-ID			INTEGER (0...65535)	

### 9.2.1.7 Cell Individual Offset

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Cell individual offset</u>			<u>Integer (-20,...,+20)</u>	<u>-20 -&gt; -10dB</u> <u>-19 -&gt; -9.5dB</u> <u>...</u> <u>+20 -&gt; +10dB</u>

### 9.2.1.78 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the Code Groups, Scrambling Codes, Midambles and Toffset (see table 9 of ref. [13]).

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Cell Parameter ID			INTEGER (0...127)	

### 9.2.1.89 CFN

Connection Frame Number for the radio connection, see ref. [17].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
CFN			INTEGER (0... 255)	

### 9.2.1.10 CFN Offset

Activation time for the compressed mode pattern.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>CFN Offset</u>			<u>INTEGER (0... 255)</u>	<u>Number of frames between CFN and the compressed mode activation.</u>

### 9.2.1.911 CN CS Domain Identifier

Identification of the CN node in the CS Domain.



IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CN PS Domain Identifier</b>				
>PLMN Id	M		OCTET STRING (3)	<ul style="list-style-type: none"> <li>- digits 0 to 9, two digits per octet,</li> <li>- each digit encoded 0000 to 1001,</li> <li>- 1111 used as filler</li> <li>- bit 4 to 1 of octet n encoding digit 2n-1</li> <li>- bit 8 to 5 of octet n encoding digit 2n</li> </ul> <p>-The PLMN-ID consists of 3 digits from MCC followed by either</p> <ul style="list-style-type: none"> <li>-a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>-3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed

### 9.2.1.4012 CN PS Domain Identifier

Identification of the CN Node in the PS Domain.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CN PS Domain Identifier</b>				
>PLMN Id	M		OCTET STRING (3)	<ul style="list-style-type: none"> <li>- digits 0 to 9, two digits per octet,</li> <li>- each digit encoded 0000 to 1001,</li> <li>- 1111 used as filler</li> <li>- bit 4 to 1 of octet n encoding digit 2n-1</li> <li>- bit 8 to 5 of octet n encoding digit 2n</li> </ul> <p>-The PLMN-ID consists of 3 digits from MCC followed by either</p> <ul style="list-style-type: none"> <li>-a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>-3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
>RAC	M		OCTET STRING (1)	

## 9.2.1.4113 Criticality Diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Criticality Diagnostics</b>				
>Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
>Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
>Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
>Transaction Id	O		INTEGER (0..255)	
<b>Information Element Criticality Diagnostics</b>		<i>1..&lt;maxnoof errors&gt;</i>		
>Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'Ignore' shall never be used.
>IE Id	M		INTEGER (0..65535)	The IE Id of the not understood IE as defined in the ASN.1 part of the specification.
>Repetition Number	O		INTEGER (0..255)	The repetition number of the not understood IE if applicable

Range bound	Explanation
maxnooferrors	Maximum number. of IE errors allowed to be reported with a single message. The value for maxnooferrors is 256.

## 9.2.1.4214 C-RNTI

C-RNTI (Cell RNTI) is the UE identifier allocated by the DRNS to be used over the radio interface. It is unique in the cell. One UE context has one unique C-RNTI value allocated in the DRNS.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
C-RNTI			INTEGER(0..65535)	

## 9.2.1.4315 DCH Combination Indicator

The DCH Combination Indicator is used to indicate the multiplexing of more than one DCH on transport bearer. The value should be unique for each group of coordinated DCH's per request message.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DCH Combination Ind			INTEGER (0..255)	

### 9.2.1.4416 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DCH ID			INTEGER (0..255)	

### 9.2.1.4517 Dedicated Measurement Object Type

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

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

### 9.2.1.4618 Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED (SIR, SIR Error, Transmitted Code Power, RSCP,...)	RSCP is used by TDD only.

NOTE: For definitions of the measurement types refer to ref. [Error! Bookmark not defined.] and [14].

### 9.2.1.4719 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR value	C <i>MeasValue</i>		INTEGER(0..63)	According to mapping in 25.215/25.225
>SIR error Value	C <i>MeasValue</i>		INTEGER(0..125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0..127)	According to mapping in 25.215/25.225
>RSCP	C <i>MeasValue</i>		INTEGER(0..81)	According to mapping in 25.225 (TDD only)

Condition	Explanation
<i>MeasValue</i>	Only one measurement value can be present at the same time.

### 9.2.1.20 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Control Field			ENUMERATED (May, Must, Must not)	

### 9.2.1.21 Diversity Indication

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

### 9.2.1.4822 Downlink SIR Target

It is the Target Downlink SIR that shall be used as initial value by the UE.

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Downlink SIR Target			Uplink SIR	

### 9.2.1.23 DPCH Constant Value

DPCH Constant Value is the power margin used by a UE to set the proper uplink power.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DPCH Constant Value			INTEGER (-32...31)	Unit dBm Granularity 1 dB.

### 9.2.1.1924 D-RNTI

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D-RNTI			Integer(0..2 <sup>20</sup> -1)	

### 9.2.1.2025 D-RNTI Release Indication

The D-RNTI Release Indication indicates whether or not a CRNC shall release the D-RNTI allocated for a particular UE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D-RNTI Release Indication			ENUMERATED (Release D-RNTI, not Release D-RNTI)	

### 9.2.1.2426 DRX Cycle Length Coefficient

The DRX Cycle Length Coefficient is used as input for the formula to establish the paging occasions to be used in DRX.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DRX Cycle Length Coefficient			Integer (2, .., 12)	Refers to 'k' in the formula as specified in ref. 15, Discontinuous Reception.

### 9.2.1.2227 FACH Initial Window Size

Indicates the initial number of MAC-c SDUs that may be transmitted before an acknowledgement is received from the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FACH Initial Window Size			INTEGER (0..255)	Number of frames MAC-c SDUs. 255 = Unlimited number of FACH data frames.

**9.2.1.2328 FACH Priority Indicator**

Indicates the relative priority of the FACH data frame. Used by the DRNC when scheduling FACH traffic.

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

**9.2.1.2429 Frame Handling Priority**

This parameter indicates the priority level to be used during the lifetime of the DCH/DSCH for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Frame Handling Priority			INTEGER (0..15)	0=Lowest Priority, ... 15=Highest Priority

**9.2.1.2530 Frame Offset**

Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame\_offset is used in the translation between Connection Frame Number (CFN) on Iub/Iur and least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Frame Offset			INTEGER (0..255)	Frames

**9.2.1.31 IMSI**

The IMSI is the permanent UE user Identity, see ref. Error! Reference source not found.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>IMSI</u>			<u>OCTET STRING (SIZE(3..8))</u>	<u>-Decimal digits coded in BCD</u> <u>-'1111' used as filler</u> <u>-bit 4 to 1 of octet n is encoding digit 2n-1</u> <u>-bit 8 to 5 of octet n is encoding digit 2n</u>

**9.2.1.32 L3 Information**

This parameter contains the Layer 3 Information from a Uu message as received from the UE over the Uu interface or the Layer 3 Information for a Uu message to be sent to a UE by the CRNC, as defined in ref. [16].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>L3 Information</u>			<u>Bit String</u>	<u>The content is defined in ref. [1413]</u>

### 9.2.1.33 Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, DRNS shall not increase the DL power of the RL if it exceeds by more than *Power Raise Limit* dB the averaged DL power used in the last *DL power averaging window size* timeslots of the same RL.

*Power Raise Limit* and *DL power averaging window size* are parameters configured in the DRNS.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Limited Power Increase			ENUMERATED (Used, Not used, ..)	

### 9.2.1.2634 MAC-c SDU Length

Indicates the MAC-c SDU Length. There may be multiple data frame sizes per priority class.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
MAC-c SDU Length			INTEGER (1..5000)	Size of the MAC-c SDU in number of bits.

### 9.2.1.35 Maximum Allowed UL Tx Power

Maximum Allowed UL Tx Power is the maximum power that a UE in a particular cell is allowed to transmit.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Allowed UL Tx Power			INTEGER (-50..+33)	dBm

### 9.2.1.27 TrCh Source Statistics Descriptor

Defines the statistics of the data transmitted in the transport channel. This information may be used in reserving resources in the DRNS.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TrCh Source Statistics Descriptor			ENUMERATED (speech, RRC, unknown, ...)	'Speech' – Statistics of the data corresponds to speech. 'RRC' – Statistics of the data corresponds to RRC signalling 'Unknown' – The statistics of the data is unknown

### 9.2.1.2836 Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Filter Coefficient	M		INTEGER (1..256)	

### 9.2.1.2937 Measurement ID

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Measurement ID			Integer(0 .. 2^20-1)	

### 9.2.1.38 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

<u>Information Element / Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE Type and Reference</u>	<u>Semantics Description</u>
<u>SIR</u>	<u>C – Threshold</u>		<u>INTEGER(0..62)</u>	<u>0: 0 dB</u> <u>1: 0.5 dB</u> <u>2: 1 dB</u> <u>...</u> <u>62: 31dB</u>
<u>SIR Error</u>	<u>C – Threshold</u>		<u>INTEGER(0..124)</u>	<u>0: 0 dB</u> <u>1: 0.5 dB</u> <u>2: 1 dB</u> <u>...</u> <u>124: 62 dB</u>
<u>Transmitted Code Power</u>	<u>C – Threshold</u>		<u>INTEGER(0..112,...)</u>	<u>0: 0 dB</u> <u>1: 0.5 dB</u> <u>2: 1 dB</u> <u>...</u> <u>112: 56 dB</u>
<u>RSCP</u>	<u>C – Threshold</u>		<u>INTEGER(0..80)</u>	<u>0: 0 dB</u> <u>1: 0.5 dB</u> <u>2: 1 dB</u> <u>...</u> <u>80: 40dB</u>

<u>Condition</u>	<u>Explanation</u>
<u>Threshold</u>	<u>Only one measurement threshold can be present at the same time.</u>

### 9.2.1.39 Measurement Threshold

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



<u>Information Element / Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE Type and Reference</u>	<u>Semantics Description</u>
<u>SIR</u>	<u>C = Threshold</u>		<u>INTEGER(0..63)</u>	According to mapping in 25.215/25.225
<u>SIR Error</u>	<u>C = Threshold</u>		<u>INTEGER(0..125)</u>	<u>SIR_Error=SIR-SIR_target</u> 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
<u>Transmitted Code Power</u>	<u>C = Threshold</u>		<u>INTEGER(0..127)</u>	According to mapping in 25.215/25.225
<u>RSCP</u>	<u>C = Threshold</u>		<u>INTEGER(0..81)</u>	According to mapping in 25.225 (TDD only)

<u>Condition</u>	<u>Explanation</u>
<u>Threshold</u>	<u>Only one measurement threshold can be present at the same time.</u>

### 9.2.1.3040 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Message Type</b>				
<b>&gt;Procedure ID</b>		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 Commit, 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)	

### 9.2.1.3441 Multiple URAs Indicator

The Multiple URAs Indicator indicates whether the accessed cell has multiple URAs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiple URAs Indicator			Enumerated (Multiple URA s exist, Single URA Exists)	

### 9.2.1.3242 Payload CRC Present Indicator

This parameter indicates whether FP payload 16 bit CRC is used or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Payload CRC Presence Indicator			ENUMERATED (CRC Included, CRC not included)	

**9.2.1.43 PCCPCH Power**

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
PCCPCH power			INTEGER(-15..40)	Unit dBm Granularity 0.1 dB.

**9.2.1.3344 Primary CPICH Power**

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Primary CPICH power			ENUMERATED (-10..50)	Unit dBm Granularity 0.1 dB.

**9.2.1.3445 Primary Scrambling Code**

The Primary scrambling code to be used in the cell.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Primary Scrambling Code			INTEGER (0 .. 511)	

**9.2.1.35 SCH Time Slot**

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

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
SCHTime Slot			INTEGER(0..6)	

**9.2.1.3646 Puncture Limit**

The maximum amount of puncturing for a transport channel in rate matching.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Puncture Limit			INTEGER (0..15)	0: 40% 1: 44 % ... 14: 96% 15: 100%

**9.2.1.3747 RANAP Relocation Information**

This parameter is transparent to the RNSAP. The parameter contains information for the Relocation procedure as defined in [1].

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
RANAP Relocation Information			Bit String	The contents is defined in ref. [1].

## 9.2.1.3848 Report Characteristics

The report characteristics, defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Report characteristics</b>				
>Report characteristics type			ENUMERATED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F, ...)	
<b>&gt;Periodic Report Information</b>	C – Periodic			
>>Report Periodicity	M		ENUMERATED (10ms...1min ) step 10ms, (1min...1hr) step 1min	The periodicity with which the DRNS shall send measurement reports. First working assumption!
<b>&gt;Event A</b>	C – Event A			
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min ) step 10ms,...	
<b>&gt;Event B</b>	C – Event B			
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min ) step 10ms,...	
<b>&gt;Event C</b>	C – Event C			
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decrease Threshold	
>>Measurement Change Time	M		ENUMERATED (10ms...1min ) step 10ms,...	The time within which the measurement entity shall rise, in order to trigger a measurement report.
<b>&gt;Event D</b>	C – Event D			
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decrease Threshold	
>>Measurement Change Time	M		ENUMERATED (10ms...1min ) step 10ms,...	The time within which the measurement entity shall fall, in order to trigger a measurement report.
<b>&gt;Event E</b>	C – Event E			
>>Measurement Threshold 1	M		Measurement Threshold	

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

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

### 9.2.1.3949 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RL ID			INTEGER (0..31)	

### 9.2.1.40 Limited Power Increase

~~The parameter is used for a more efficient use of the inner loop DL power control for non real time data.~~

~~If the limited power increase is used, DRNS shall not increase the DL power of the RL if it exceeds by more than *Power\_Raise\_Limit* dB the averaged DL power used in the last *DL\_power\_averaging\_window\_size* timeslots of the same RL.~~

~~*Power\_Raise\_Limit* and *DL\_power\_averaging\_window\_size* are parameters configured in the DRNS.~~

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Limited Power Increase			ENUMERATED(Used, Not used, )	

### 9.2.1.4450 RNC-Id

This is the identifier of one RNC in UTRAN.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
>RNC Id			INTEGER (0..4095)	

### 9.2.1.51 SCH Time Slot

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

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
SCHTime Slot			INTEGER(0..6)	

### 9.2.1.4252 Service Area Identifier (SAI)

This information element is used to uniquely identify an area consisting of one or more cells belonging to the same Location Area. Such an area is called a Service Area and can be used for indicating the location of a UE to the CN.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
<b>SAI</b>				
>PLMN Id	M		OCTET STRING (3)	<ul style="list-style-type: none"> <li>- digits 0 to 9, two digits per octet,</li> <li>- each digit encoded 0000 to 1001,</li> <li>- 1111 used as filler</li> <li>- bit 4 to 1 of octet n encoding digit 2n-1</li> <li>- bit 8 to 5 of octet n encoding digit 2n</li> </ul> <p>-The PLMN-ID consists of 3 digits from MCC followed by either</p> <ul style="list-style-type: none"> <li>-a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>-3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed
>SAC	M		OCTET STRING (2)	

### 9.2.1.4353 S-RNTI

S-RNTI is the UE context identifier in the SRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S-RNTI			Integer(0..2 <sup>20</sup> -1)	

### 9.2.1.4454 Sync Case

The SCH and PCCPCH in a TDD cell are mapped on one or two downlink slots per frame. There are two cases of Sync Case as follows:

- Case 1) SCH and PCCPCH allocated in a single TS#k
- Case 2) SCH allocated in two TS: TS#k and TS#k+8  
PCCPCH allocated in TS#k

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Sync Case			ENUMERATED (Case1, Case2)	

### 9.2.1.4555 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI presence			ENUMERATED (Present, not present)	

### 9.2.1.4656 Time Slot

The Time Slot represents the time interval assigned to a Physical Channel referred to the start of a Radio Frame.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Time Slot			INTEGER (0..14)	

### 9.2.1.4757 ToAWE

ToAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. ToAWE is defined with a positive value relative Latest Time of Arrival (LToA). A data frame arriving after ToAWS gives a Timing Adjustment Control frame response.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
ToAWE			INTEGER (0..2559)	msec.

### 9.2.1.4858 ToAWS

ToAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. ToAWS is defined with a positive value relative Time of Arrival Window Endpoint (ToAWE). A data frame arriving before ToAWS gives a Timing Adjustment Control frame response.



IE/Group Name	Presence	Range	IE type and reference	Semantics description
ToAWS			INTEGER (0..1279)	msec.

### 9.2.1.4959 Transaction ID

The Transaction ID is used to associate all the messages belonging to the same pending procedure of the same RNSAP procedure type (e.g. Radio Link Addition), i.e. the Request-, Response-, Confirm-type of messages have the same Transaction ID. The messages belonging to different pending procedures have different Transaction IDs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transaction ID			INTEGER (0..255)	Since the scope is not clear, the range of this parameter is to be considered a working assumption

### 9.2.1.5060 Transport Bearer ID

The Transport Bearer ID uniquely identifies an Iur transport bearer.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Bearer ID			INTEGER (0..4095)	

### 9.2.1.5461 Transport Bearer Request Indicator

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

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

### 9.2.1.5262 Transport Layer Address

Transport Layer Address defines the transport address of the DRNS. For details on the Transport Address used see [3].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Layer Address			Bit string(1... 160, ...)	

### 9.2.1.5363 Transport Format Combination Set

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>TFCS</b>		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>CTFC	M		INTEGER(0..MaxCTFC-1)	Integer number calculated according to ref. [14].
>CHOICE Gain Factors	C-PhysChan			
>>Signalled Gain Factors				
>>>Gain Factor $\beta_c$	M		Integer (0..15)	For UL DPCCH or control part of PRACH in FDD; mapping in accordance to TS 25.213
>>>Gain Factor $\beta_D$	M		Integer (0..15)	For UL DPDCH or data part of PRACH in FDD; mapping in accordance to TS 25.213
>>>Reference TFC nr	O		Integer (0..15)	If this TFC is a reference TFC, this IE indicates the reference number
>>Computed Gain Factors				
>>>Reference TFC nr	M		Integer (0..15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC

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

Range bound	Explanation
<i>MaxnoofTFCs</i>	The maximum number of Transport Format Combinations (1024).
<i>MaxCTFC</i>	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to ref. [16].

### 9.2.1.5464 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transport Format Set</b>				
>Dynamic Transport Format Information		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..4095)	
>>Transport Block Size	C – Blocks		INTEGER (1..5000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission time interval	C-TTIdynamic	1..<maxTTIcount>	Enumerated(10, 20, 40, 80)	
>Semi-static Transport Format Information				
>>Transmission time interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>>Type of channel coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>>Rate matching attribute	M		INTEGER (1..maxRM)	
>>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>>CHOICE mode				
>>>TDD				
>>>>2 <sup>nd</sup> interleaving mode	M		Enumerated (Frame related, Timeslot related)	

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

Range bound	Explanation
MaxTFcount	The maximum number of different transport formats that can be included in the Transport format set for one transport channel is 32.
MaxRM	The maximum number that could be set as rate matching attribute for a transport channel is 256.
MaxTTIcount	The amount of different TTI that are possible for that transport format is 4.

### 9.2.1.65 TrCh Source Statistics Descriptor

Defines the statistics of the data transmitted in the transport channel. This information may be used in reserving resources in the DRNS.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>TrCh Source Statistics Descriptor</u>			<u>ENUMERATED (speech, RRC, unknown, ...)</u>	'Speech' = Statistics of the data corresponds to speech. 'RRC' = Statistics of the data corresponds to RRC signalling 'Unknown' = The statistics of the data is unknown

### 9.2.1.5566 UARFCN

The UTRA Absolute Radio Frequency Channel Number defines the carrier.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
UARFCN			INTEGER (0..16383, ...)	Corresponds to: 0.0Hz.. 3276.6MHz see 25.104, 25.105.

### 9.2.1.5667 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
UL FP mode			ENUMERATED (Normal, Silent)	

### 9.2.1.57 Uplink SIR

The UL SIR indicates a received UL SIR.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Uplink SIR</u>			<u>ENUMERATED (-8.2.. 17.3)</u>	<u>Step 0.1 dB</u>

### 9.2.1.5868 UL Interference Level

The parameter indicates the UL Interference Level in a cell [FDD]/time slot[TDD]. The UL Interference Level is used by the UE to calculate its initial UL power for the cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
UL Interference Level			ENUMERATED (-128..-60)	Unit: dBm, Step size=0.1 dB

### 9.2.1.69 Uplink SIR

The UL SIR indicates a received UL SIR.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Uplink SIR</u>			<u>ENUMERATED (-8.2 .. 17.3)</u>	<u>Step 0.1 dB</u>

### 9.2.1.5970 URA ID

IE/Group Name	Presence	Range	IE type and reference	Semantics description
URA ID			INTEGER (0..65 535)	

### 9.2.1.6071 UTRAN Cell Identifier (UC-Id)

The UC-ID (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UC-ID</b>		1		
>RNC-ID	M		INTEGER (0...4095)	
>C-ID	M		C-ID	

### 9.2.1.61 L3 Information

This parameter contains the Layer 3 Information from a Uu message as received from the UE over the Uu interface or the Layer 3 Information for a Uu message to be sent to a UE by the CRNC, as defined in ref. [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
L3 Information			Bit String	The content is defined in ref. [1413]

### 9.2.1.62 Diversity Control Field

The Diversity Control Field indicates if the current RL may, must or must not be combined with the already existing RLs.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Control Field			ENUMERATED (May, Must, Must not)	

### 9.2.1.63 Diversity Indication

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

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

### 9.2.1.64 Cell Individual Offset

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

IE/Group-Name	Presence	Range	IE-type and reference	Semantics-description
Cell individual offset			Integer (-20...+20)	-20 → -10dB -19 → -9.5dB ... +20 → +10dB

### 9.2.1.65 Maximum Allowed UL Tx Power

Maximum Allowed UL Tx Power is the maximum power that a UE in a particular cell is allowed to transmit.

IE/Group-Name	Presence	Range	IE-type and reference	Semantics-description
Maximum Allowed UL Tx Power			INTEGER (-50...+33)	dBm

### 9.2.1.66 DPCH Constant Value

DPCH Constant Value is the power margin used by a UE to set the proper uplink power.

IE/Group-Name	Presence	Range	IE-type and reference	Semantics-description
DPCH Constant Value			INTEGER (-32...31)	Unit dBm Granularity 1 dB.

### 9.2.1.67 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE-Type and Reference	Semantics-Description
SIR	C-Threshold		INTEGER(0..63)	According to mapping in 25.215/25.225
SIR-Error	C-Threshold		INTEGER(0..125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
Transmitted Code Power	C-Threshold		INTEGER(0..127)	According to mapping in 25.215/25.225
RSCP	C-Threshold		INTEGER(0..81)	According to mapping in 25.225 (TDD only)

Condition	Explanation
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<i>Threshold</i>	Only one measurement threshold can be present at the same time.
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**9.2.1.68 — Measurement Increase/Decrease Threshold**

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C</i> Threshold		INTEGER(0..62)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 62: 31dB
SIR-Error	<i>C</i> Threshold		INTEGER(0..124)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 124: 62 dB
Transmitted Code Power	<i>C</i> Threshold		INTEGER(0..112,...)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 112: 56 dB
RSCP	<i>C</i> Threshold		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB

Condition	Explanation
<i>Threshold</i>	Only one measurement threshold can be present at the same time.

**9.2.1.69 — PCCPCH Power**

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH power			INTEGER(-15..40)	Unit dBm Granularity 0.1 dB.

**9.2.1.70 — IMSI**

The IMSI is the permanent UE user Identity, see ref. 1.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IMSI			OCTET STRING (SIZE(3..8))	-Decimal digits coded in BCD -'1111'-used as filler -bit 4 to 1 of octet n is encoding digit 2n-1 -bit 8 to 5 of octet n is encoding digit 2n

### 9.2.1.71 ~~CFN Offset~~

~~Activation time for the compressed mode pattern.~~

<del>IE/Group Name</del>	<del>Presence</del>	<del>Range</del>	<del>IE type and reference</del>	<del>Semantics description</del>
<del>CFN Offset</del>			<del>INTEGER (0...255)</del>	<del>Number of frames between CFN and the compressed mode activation.</del>

## 9.2.2 FDD Specific Parameters

This subclause contains parameters that are specific to FDD.

### 9.2.2.1 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip Offset is used as offset for the DL DPCCH relative to the Primary CPICH timing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER (0..38399)	Chips

### 9.2.2.2 Closed loop mode1 Support indicator

The Closed loop mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Closed loop mode1 Support Indicator</u>			<u>ENUMERATED (Closed loop mode1 Supported, Closed loop mode1 not supported).</u>	

### 9.2.2.3 Closed loop mode2 Support indicator

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Closed loop mode2 Support Indicator</u>			<u>ENUMERATED (Closed loop mode2 Supported, Closed loop mode2 not supported).</u>	

### 9.2.2.24 Compressed Mode Method

Defines the method for generating the downlink compressed mode gap, as described in ref. [9].



IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Method			ENUMERATED (None, Puncturing, SF/2, Higher Layer Scheduling)	None = restore the normal mode

### 9.2.2.35 D-Field Length

Defines the D Field size of the UL DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D Field Length			ENUMERATED (1, 2)	

### 9.2.2.46 Diversity Control Field

~~Deleted Void.~~

### 9.2.2.57 Diversity Indication

~~Deleted Void.~~

### 9.2.2.68 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Mode			ENUMERATED (None, STTD, Closed loop mode 1, Closed loop mode2)	

### 9.2.2.79 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH Slot Format			INTEGER (0..16)	

### 9.2.2.10 DL Power

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

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

### 9.2.2.811 DL Scrambling Code

DL Scrambling code to be used by the RL. One cell may have multiple DL Scrambling codes available.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
DL Scrambling Code			INTEGER (0..15)	0= Primary scrambling code of the cell 1...15= Secondary scrambling code

### 9.2.2.912 Downlink Frame Type

This parameter defines if frame type 'A' or 'B' shall be used in downlink compressed mode. This is defined in [9].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Downlink Frame Type			ENUMERATED (TypeA, TypeB)	

### 9.2.2.13 DRAC Control

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

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

### 9.2.2.1014 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
FDD DL Channelisation Code Number	M		INTEGER(0..255)	The maximum value is equal to the DL spreading factor -1

### 9.2.2.15 FDD S-CCPCH Offset

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>FDD S-CCPCH Offset</u>			<u>INTEGER(0..149)</u>	0: 0 chip 1: 256 chip 2: 512 chip ... 149: 38144 chip <u>[TS 25.211]</u>

### 9.2.2.4416 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
FDD TPC Downlink step size			ENUMERATED (0.5, 1)	

### 9.2.2.4217 Gap Position Mode

The gap position can be fixed or adjustable, as defined in ref. [9].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Gap Position Mode			ENUMERATED (Fixed, Flexible)	

### 9.2.2.4318 Gap Period (TGP)

Gap Period is the period of repetition of a set of consecutive frames containing up to 2 transmission gaps.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Gap Period			INTEGER(0..255)	Frames

### 9.2.2.4419 Gap Starting Slot Number (SN)

It defines the slot number when the transmission gap starts.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
SN			Time Slot	

### 9.2.2.20 IB SG POS

First position of an Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>IB SG POS</u>			<u>INTEGER (0..2<sup>12</sup>-1)</u>	

**9.2.2.21 IB SG REP**

Repetition distance for an Information Block segment. The segment shall be transmitted when  $SFN \bmod IB\_SG\_REP = IB\_SG\_POS$ .

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>IB SG REP</u>			<u>INTEGER</u> (16, 32, 64, 128, 256, 512, 1024, 2048)	<u>Repetition period for the IB segment in frames</u>

**9.2.2.22 Max Adjustment Period**

Adjustment Period IE defines the period at the end of which the DL transmitted power shall converge. [with an accuracy of  $\pm 0.25$  dB] to the reference power value assuming zero-sum alternating stream of DL PC commands received in that period of time.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Max Adjustment Period</u>			<u>INTEGER</u> (10, 20, 30, 40, ..., 500)	<u>Slots</u>

**9.2.2.23 Max Adjustment Step**

Defines the maximum allowed value for the change of DL power level in one slot period that can be utilised by the Power drifting prevention algorithm. This value does not include the DL inner loop PC adjustment.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Maximum Adjustment Step</u>			<u>INTEGER</u> (0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1)	<u>dB</u>

**9.2.2.4524 Max Number of UL DPDCHs**

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Max Number of UL DPDCHs</u>			<u>INTEGER</u> (1..6)	

**9.2.2.4625 Min UL Channelisation Code Length**

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code Length			ENUMERATED(4,8,16,32,64,128,256)	

### 9.2.2.1726 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiplexing Position Position			ENUMERATED(Fixed, Flexible)	

### 9.2.2.1827 Pattern Duration (PD)

Pattern duration is the total time of then compressed mode pattern (all consecutive TGPs) expressed in number of frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(0..2047, ...)	Frames If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite'

### 9.2.2.28 Power Adjustment Type

Defines the characteristic of the power adjustment.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>PowerAdjustment Type</u>			<u>ENUMERATED (None, Common, Individual)</u>	

### 9.2.2.1929 Power Control Mode (PCM)

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in ref. [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Control Mode			ENUMERATED (0, 1,..)	

### 9.2.2.2030 Power Offset

This IE defines a power offset respect the Downlink transmission power of a DPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (0...24)	Unit dB, Step 0.25 dB, range 0-6 dB

### 9.2.2.2431 Power Resume Mode (PRM)

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in ref. [12].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Resume Mode			ENUMERATED (0, 1,...)	Described in ref. [98].

### 9.2.2.2232 Primary CPICH Ec/No

Energy per chip divided by the power density per band measured on the Primary CPICH by the terminal.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH Ec/No			INTEGER (-30...+30)	Unit dB, step 1 dB

### 9.2.2.2333 Propagation Delay (PD)

Propagation delay is the one-way propagation delay of the radio signal from the UE to the Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Propagation Delay			INTEGER (0..255)	Chips. Step size is 3 chips. 0=0 chips, 1=3 chips, ...

### 9.2.2.34 QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>QE-Selector</u>			<u>ENUMERATED(selected DCH, non-selected DCH)</u>	

### 9.2.2.35 RL Set ID

The RL Set ID uniquely identifies one RL Set within a UE Context.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>RL Set ID</u>			<u>INTEGER (0..31)</u>	

**9.2.2.2436 S-Field Length**

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

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

**9.2.2.2537 Scrambling Code Change**

This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Change			ENUMERATED (Change, No change)	

**9.2.2.38 Secondary CCPCH Slot Format**

<u>Information Element/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Secondary CCPCH Slot Format</u>			<u>INTEGER (0..17)</u>	<u>refer to 25.211.</u>

**9.2.2.2639 Slot Number (SN)**

It defines the slot number when the transmission gap starts.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SN			Time Slot	

**9.2.2.2740 SSDT Cell Identity**

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

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

**9.2.2.2841 SSDT Cell Identity Length**

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell ID Length			ENUMERATED (Short, Medium, Long)	

**9.2.2.2942 SSDT Indication**

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

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

### 9.2.2.3043 SSDT Support Indicator

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

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

### 9.2.2.44 STTD Indicator

Indicates if STTD shall be active or not.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>STTD Indicator</u>			<u>ENUMERATED (active, inactive)</u>	

### 9.2.2.45 STTD Support Indicator

The STTD Support Indicator indicates whether the STTD can be applied to DL DPCH in the cell or not.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>STTD Support Indicator</u>			<u>ENUMERATED (STTD Supported, STTD not Supported).</u>	

### 9.2.2.3146 TFCI Signalling Mode

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Signalling Mode			ENUMERATED (Normal, Split)	

### 9.2.2.3247 Transmission Gap Distance (TGD)

Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of slots. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.



IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGD			INTEGER(0..3839)	Slots

### 9.2.2.48 Transmit Diversity Indicator

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Transmit Diversity Indicator</u>			<u>ENUMERATED (active, inactive)</u>	

### 9.2.2.3349 Transmit Gap Length (TGL)

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			INTEGER (3,4,7,10,14)	Slot

### 9.2.2.50 Tx diversity indicator

The Tx diversity support indicator indicates if the following conditions are satisfied:

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Tx diversity indicator</u>			<u>ENUMERATED (true, false).</u>	

### 9.2.2.3451 UL/DL Compressed Mode Selection

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL/DL Compressed Mode Selection			ENUMERATED (UL only, DL only, both UL and DL)	

### 9.2.2.3552 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH Slot Format			INTEGER (0..5)	

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

### 9.2.2.3653 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UL scrambling code</b>				
>UL Scrambling Code Number	M		INTEGER (0.. $2^{24}-1$ )	
>UL Scrambling Code Length	M		ENUMERATED (Short, Long)	

### 9.2.2.3754 Uplink Delta SIR

The delta in uplink SIR that shall be added to the SIR target used during compressed mode frames.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR			Enumerated (-6..+10dB)	Step 0.1 dB.

### 9.2.2.3855 Uplink Delta SIR After

The delta in uplink SIR target that shall be added to the SIR target used one frame after the compressed mode frames.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR after			Enumerated (-6..+10dB)	Step 0.1 dB.

### 9.2.2.39 FDD S-CCPCH Offset

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD S-CCPCH Offset			INTEGER(0..-149)	0: 0 chip 1: 256 chip 2: 512 chip ... 149: 38144 chip [TS 25.211]

### 9.2.2.40 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER (0..17)	refer to 25.211.

### 9.2.2.41 Tx diversity indicator

The Tx diversity support indicator indicates if the following conditions are satisfied:

- P-CPICH is broadcast from two antennas
- STTD is applied to P-CCPCH

~~TSTD is applied to P-SCH and S-SCH~~

<del>IE/Group Name</del>	<del>Presence</del>	<del>Range</del>	<del>IE type and reference</del>	<del>Semantics description</del>
<del>Tx diversity indicator</del>			<del>ENUMERATED (true, false).</del>	

### 9.2.2.42 ~~STTD Indicator~~

~~Indicates if STTD shall be active or not.~~

<del>IE/Group Name</del>	<del>Presence</del>	<del>Range</del>	<del>IE type and reference</del>	<del>Semantics description</del>
<del>STTD Indicator</del>			<del>ENUMERATED (active, inactive).</del>	

### 9.2.2.43 ~~STTD Support Indicator~~

~~The STTD Support Indicator indicates whether the STTD can be applied to DL-DPCH in the cell or not.~~

<del>IE/Group Name</del>	<del>Presence</del>	<del>Range</del>	<del>IE type and reference</del>	<del>Semantics description</del>
<del>STTD Support Indicator</del>			<del>ENUMERATED (STTD Supported, STTD not Supported).</del>	

### 9.2.2.44 ~~Closed loop mode1 Support indicator~~

~~The Closed loop mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not~~

<del>IE/Group Name</del>	<del>Presence</del>	<del>Range</del>	<del>IE type and reference</del>	<del>Semantics description</del>
<del>Closed loop mode1 Support Indicator</del>			<del>ENUMERATED (Closed loop mode1 Supported, Closed loop mode1 not supported).</del>	

### 9.2.2.45 ~~Closed loop mode2 Support indicator~~

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

IE/Group-Name	Presence	Range	IE-type and reference	Semantics-description
Closed-loop-mode2-Support-Indicator			ENUMERATED (Closed-loop-mode2-Supported, Closed-loop-mode2-not-supported).	

**9.2.2.46 — DL Power**

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

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

**9.2.2.47 — Transmit Diversity Indicator**

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

**9.2.2.48 — QE-Selector**

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

IE/Group-Name	Presence	Range	IE-type and reference	Semantics-description
QE-Selector			ENUMERATED (selected DCH, non-selected DCH)	

**9.2.2.49 — DRAC Control**

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

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

**9.2.2.50 — IB\_SG\_POS**

First position of an Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB-SG-POS			INTEGER (0..2 <sup>12</sup> -1)	

### 9.2.2.51 ~~IB\_SG\_REP~~

~~Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod IB\_SG\_REP = IB\_SG\_POS.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB-SG-REP			INTEGER (16, 32, 64, 128, 256, 512, 1024, 2048)	Repetition period for the IB segment in frames

### 9.2.2.52 ~~Power Adjustment Type~~

~~Defines the characteristic of the power adjustment.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PowerAdjustment-Type			ENUMERATED (None, Common, Individual)	

### 9.2.2.53 ~~Max Adjustment Step~~

~~Defines the maximum allowed value for the change of DL power level in one slot period that can be utilised by the Power drifting prevention algorithm. This value does not include the DL inner loop PC adjustment.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Adjustment Step			INTEGER (0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1)	dB

### 9.2.2.54 ~~Max Adjustment Period~~

~~Adjustment Period IE defines the period at the end of which the DL transmitted power shall converge, [with an accuracy of + 0.25 dB] to the reference power value assuming zero sum alternating stream of DL PC commands received in that period of time.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Adjustment Period			INTEGER (10, 20, 30, 40, ..., 500)	Slots

### 9.2.2.55 ~~RL Set ID~~

~~The RL Set ID uniquely identifies one RL Set within a UE Context.~~

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
RL-Set-ID			INTEGER (0..31)	

### 9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

#### 9.2.3.1 Burst Type

Defines the burst type of the physical channel, see ref. [12].

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Burst Type			ENUMERATED (Type1, Type2)	

#### 9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
CCTrCH ID			INTEGER (0..15)	

#### 9.2.3.3 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
DPCH ID			INTEGER (0..239)	

#### 9.2.3.4 Midamble Shift

Different bursts transmitted simultaneously, using the same midamble code shall use different Midamble Shifts.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Midamble Shift			INTEGER (0..15)	

#### 9.2.3.5 Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. [14].

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Primary CCPCH RSCP			INTEGER (0..91)	According to mapping in 25.225.

### 9.2.3.6 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Length			INTEGER(1..63)	

### 9.2.3.7 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot  $K$  is assigned to a physical channel in the Radio Frame  $J$ , it is assigned to the same physical channel also in all the Radio Frames  $J+n*Repetition\ Period$  (where  $n$  is an integer).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERATED (1,2,4,8,16,32,64)	

### 9.2.3.8 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1),... (4/4), (8/1), (8/8), (16/1)... (16/16))	

### 9.2.3.9 TDD Physical Channel Offset

The TDD Physical Channel Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = TDD Physical Channel Offset).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel Offset			INTEGER (0..63)	

### 9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

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

### 9.2.3.11 TFCI Coding

The TFCI Coding describes how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
TFCI Coding	M		Enumerated (4, 8, 16, 32)	



<h2 style="margin: 0;">CHANGE REQUEST</h2>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>				
<h3 style="margin: 0;">25.423 CR 131</h3>	Current Version: <b>3.1.0</b>					
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>	<small>↑ CR number as allocated by MCC support team</small>					
For submission to: <b>TSG RAN#8</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="text-align: center;"><b>X</b></td></tr> <tr><td style="text-align: center;"> </td></tr> </table> strategic <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="text-align: center;"> </td></tr></table> (for SMG use only) non-strategic <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="text-align: center;"> </td></tr></table>	<b>X</b>			
<b>X</b>						

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 17, 2000

**Subject:** Definition of the Relation between the Tabular Format and ASN.1 in RNSAP

**Work item:** Agenda item 7.1 d)

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

**Reason for change:** The relation of tabular format and ASN.1 is not clear in the current RNSAP specification.

This CR proposes that the relation (normative vs. informative) of the tabular format and the ASN.1 description is defined so that both sections are part of the normative text, but in case of contradiction ASN.1 part takes precedence for everything else except the conditions for conditional IEs where Tabular Format takes precedence.

**Clauses affected:** 9.1.1, New sections: 9.2.0 and 9.3.0

<b>Other specs affected:</b>	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:	
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**Other comments:**



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

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## 9 Elements for RNSAP Communication

### 9.1 Message Functional Definition and Content

#### 9.1.1 General

This subclause defines the structure of the messages required for the RNSAP protocols [in tabular format](#). [The corresponding ASN.1 definition is presented in section 9.3. In case there is contradiction between the tabular format in section 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.](#)

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 COMMIT	9.1.41
COMPRESSED MODE CANCEL	9.1.42
ERROR INDICATION	9.1.43

## NEXT MODIFIED SECTION

### 9.2 Information Element Functional Definition and Contents

#### 9.2.0 General

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

#### 9.2.1 Common Parameters

<b>NEXT MODIFIED SECTION</b>
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## 9.3 Message and Information element abstract syntax (with ASN.1)

### 9.3.0 General

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

~~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

<b>CHANGE REQUEST</b>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
<b>25.423 CR 132R1</b>		Current Version: <b>3.1.0</b>	
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: <b>TSG RAN#8</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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 23, 2000

**Subject:** Clarification to RNSAP Message Syntax

**Work item:**

<b>Category:</b>	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b>	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 description of RNSAP messages has been written in a way that RNSAP messages can contain any IEs specified in object set definition(s) for that message without the order or number of occurrence being restricted by ASN.1 rules.

This CR clarifies that messages shall be constructed according to the order and number of occurrences that is specified in the ASN.1 *PDU Definitions* module, and if differently formed message is received, it is considered as Logical error.

**Clauses affected:** New section: 9.3.0

<b>Other specs affected:</b>	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:**



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

<b>NEXT MODIFIED SECTION</b>
------------------------------

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

### 9.3.0 General

Section 9.3~~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.

The ASN.1 definition specifies the structure and content of RNSAP messages. RNSAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a RNSAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a RNSAP message that is not constructed as defined above is received, this shall be considered as ~~Abstract Syntax Logical Error~~, and the message shall be handled as defined for ~~Abstract Syntax Error~~ in section 10.3.4.

### 9.3.1 Usage of Private Message Mechanism for non-standard use

**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 135**

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: **R3#8**  
 list expected approval meeting # here ↑

For approval for information

strategic  (for SMG use only)  
 non-strategic

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://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:** Cause values on msg and RL level

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
 A Corresponds to a correction in an earlier release  Release 96   
 (only one category shall be marked with an X) B Addition of feature  Release 97   
 C Functional modification of feature  Release 98   
 D Editorial modification  Release 99   
 Release 00

**Reason for change:** Already during some time, there is an open issue listed regarding this item.

Currently, only the RL\_RECONFIGURATION\_FAILURE contains both a general and a RL specific cause. Having causes on two levels seems to make sense:

- if there is a general problem e.g. at transport channel level, a general cause can be used;
- if there is an RL specific problem, e.g. resource situation, then an RL-specific cause value can be used.

Therefore this CR proposes to extend this approach to the RL\_SETUP\_FAILURE and RL\_ADDITION\_FAILURE. For the last message, introducing this approach might not be so obvious since it is expected that in most cases there will be an RL specific cause. However, since a general cause might still be usefull in certain cases (e.g. if a node has a large resource problem) and for consistency reasons, this approach is also proposed for the RL\_ADDITION\_FAILURE.

In all cases it is proposed to use a CHOICE: either the general cause is used and then all RL's have failed, or RL-specific causes are included and then only the RL's for which a cause value is included have failed.

Compared to TDOC R3-001121/CR073r1 only the TDD related messages have been added

**Clauses affected:** 9.1.5; 9.1.8; 9.1.14; 9.3.3; 9.3.7

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



BSS test specifications  
O&M specifications



→ List of CRs:

→ List of CRs:



**Other  
comments:**



help.doc

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

## 9.1.5 RADIO LINK SETUP FAILURE

## 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<i>CHOICE cause level</i>						
<i>&gt;General</i>					Yes	ignore
<i>&gt;&gt;Cause</i>	M					
<i>&gt;RL specific</i>					Yes	ignore
<b>&gt;&gt;Unsuccessful RL Information Response</b>		1...<maxno ofRLs>			EACH	Ignore
<i>&gt;&gt;&gt;RL ID</i>	M				–	
<i>&gt;&gt;&gt;Cause</i>	M				–	
<b>&gt;&gt;Successful RL Information Response</b>		0..<maxno ofRLs-1>			EACH	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				–	
<i>&gt;&gt;&gt;RL Set ID</i>	M				–	
<i>&gt;&gt;&gt;SAI</i>	M				–	
<i>&gt;&gt;&gt;UL Interference Level</i>	M				–	
<b>&gt;&gt;&gt;DL Code Information</b>		1..<maxno ofDL Codes>			GLOBAL	ignore
<i>&gt;&gt;&gt;&gt;DL Scrambling Code</i>	M				–	
<i>&gt;&gt;&gt;&gt;FDD DL Channelisation Code Number</i>	M				–	
<i>&gt;&gt;&gt;Diversity Indication</i>	M				–	
<i>&gt;&gt;&gt;CHOICE diversity Indication</i>						
<i>&gt;&gt;&gt;&gt;Combining</i>					YES	ignore
<i>&gt;&gt;&gt;&gt;&gt;RL ID</i>	M			Reference RL ID for the combining	–	
<i>&gt;&gt;&gt;&gt;&gt;Non Combining or IE not present</i>				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;&gt;&gt;DCH Information Response</b>		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;DCH ID</i>	M				–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;Binding ID</i>	M				–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;Transport Layer Address</i>	M				–	
<i>&gt;&gt;&gt;SSDT Support Indicator</i>	M				–	
<i>&gt;&gt;&gt;Maximum Uplink SIR</i>	M		Uplink SIR		–	
<i>&gt;&gt;&gt;Minimum Uplink SIR</i>	M		Uplink SIR		–	
<i>&gt;&gt;&gt;Maximum Allowed UL Tx Power</i>	M				–	
<b>&gt;&gt;&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighbouringRNCs>			EACH	ignore
<i>&gt;&gt;&gt;&gt;RNC-Id</i>	M				–	
<i>&gt;&gt;&gt;&gt;CN PS Domain Identifier</i>	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>CN CS Domain Identifier	O				–	
>>>>Per FDD Cell Information		0..<maxno ofFDDneigh 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 ofTDDneigh hbours>				
>>>>>C-Id	M					
>>>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>>>Frame Offset	O				–	
>>>>>Cell Parameter ID	M				–	
>>>>>Sync Case	M				–	
>>>>>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		–	
Downlink SIR Target	M		Uplink SIR		–	
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.

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

## 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
<i>CHOICE cause level</i>						
<i>&gt;General</i>					<u>Yes</u>	<u>ignore</u>
<i>&gt;&gt;Cause</i>	<u>M</u>					
<i>&gt;RL specific</i>					<u>Yes</u>	<u>ignore</u>
<b>&gt;&gt;Unsuccessful RL _Information Response</b>		1			YES	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				-	
<i>&gt;&gt;&gt;Cause</i>	M				-	
Criticality Diagnostics	O				YES	ignore

## 9.1.8 RADIO LINK ADDITION FAILURE

### 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<i>CHOICE cause level</i>						
<i>&gt;General</i>					Yes	ignore
<i>&gt;&gt;Cause</i>	M					
<i>&gt;RL specific</i>					Yes	ignore
<i>&gt;&gt;Unsuccessful RL Information Response</i>		1..<maxnoof RLS-1>			EACH	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				–	
<i>&gt;&gt;&gt;Cause</i>	M				–	
<i>&gt;&gt;Successful RL Information Response</i>		0..<maxnoof RLS-2>			EACH	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				–	
<i>&gt;&gt;&gt;RL Set ID</i>	M				–	
<i>&gt;&gt;&gt;SAI</i>	M				–	
<i>&gt;&gt;&gt;UL Interference Level</i>	M				–	
<i>&gt;&gt;&gt;DL Code Information</i>		1..<maxnoof DL Codes>			GLOBAL	ignore
<i>&gt;&gt;&gt;&gt;DL scrambling code</i>	M				–	
<i>&gt;&gt;&gt;&gt;FDD DL channelisation code Number</i>	M				–	
<i>&gt;&gt;&gt;Diversity Indication</i>	M				YES	ignore
<i>&gt;&gt;&gt;CHOICE diversity indication</i>						
<i>&gt;&gt;&gt;&gt;Combining</i>					YES	ignore
<i>&gt;&gt;&gt;&gt;&gt;RL ID</i>	M			Reference RL-Id	–	
<i>&gt;&gt;&gt;&gt;Non combining</i>					YES	ignore
<i>&gt;&gt;&gt;&gt;&gt;DCH Information Response</i>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;DCH ID</i>	M				–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;Binding ID</i>	M				–	
<i>&gt;&gt;&gt;&gt;&gt;&gt;Transport Layer Address</i>	M				–	
<i>&gt;&gt;&gt;SSDT Support Indicator</i>	M				–	
<i>&gt;&gt;&gt;Minimum Uplink SIR</i>	M		Uplink SIR		–	
<i>&gt;&gt;&gt;Maximum Uplink SIR</i>	M		Uplink SIR		–	
<i>&gt;&gt;&gt;Maximum Allowed UL Tx Power</i>	M				–	
<i>&gt;&gt;&gt;Neighbouring Cell Information</i>		0..<maxnoof neighbouring RNCs>			EACH	ignore
<i>&gt;&gt;&gt;&gt;RNC-Id</i>	M				–	
<i>&gt;&gt;&gt;&gt;CN PS Domain Identifier</i>	O				–	
<i>&gt;&gt;&gt;&gt;CN CS Domain Identifier</i>	O				–	
<i>&gt;&gt;&gt;&gt;&gt;Per FDD Cell Information</i>		0..<maxnoof FDD neighbours>				
<i>&gt;&gt;&gt;&gt;&gt;&gt;C-Id</i>	M					

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<>>>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..<maxnoof TDDneighbours>				
<>>>C-Id	M					
<>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
<>>>Frame Offset	O				–	
<>>>Cell Parameter ID	M				–	
<>>>Sync Case	M				–	
<>>>Time Slot	C-Case1				–	
<>>>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.

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

## 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
<i>CHOICE cause level</i>						
<i>&gt;General</i>					<u>Yes</u>	<u>ignore</u>
<i>&gt;&gt;Cause</i>	<u>M</u>					
<i>&gt;RL specific</i>					<u>Yes</u>	<u>ignore</u>
<b>&gt;&gt;Unsuccessful RL Information Response</b>		1			YES	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				-	
<i>&gt;&gt;&gt;Cause</i>	M				-	
Criticality Diagnostics	O				YES	ignore

## 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
<i>CHOICE cause level</i>						
<i>&gt; General</i>					YES	ignore
<i>&gt;&gt;Cause</i>	M				YES	ignore
<i>&gt;RL specific</i>					YES	ignore
<b>&gt;&gt;RLs Causing Reconfiguration Failure</b>		<i>0..&lt;maxnoof RLs&gt;</i>			EACH	ignore
<i>&gt;&gt;&gt;RL ID</i>	M				-	
<i>&gt;&gt;&gt;Cause</i>	M				-	
Criticality Diagnostics	O				YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for a UE.



....

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-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-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
 id-CellItem-PagingRqst,  
 id-CM-PatternInformationItem-CompressedModePrep,  
 id-CM-PatternInformationList-CompressedModePrep,  
 .....

....  
 id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD,  
 id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD,  
id-GeneralCauseItem-RL-AdditionFailureFDD,  
id-GeneralCauseItem-RL-AdditionFailureTDD,  
id-GeneralCauseItem-RL-ReconfFailure,  
id-GeneralCauseItem-RL-SetupFailureFDD,  
id-GeneralCauseItem-RL-SetupFailureTDD,

```

id-IMSI,
id-L3-Information,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD,
.....

.....
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-RLSpecificCauseItem-RL-AdditionFailureFDD,
id-RLSpecificCauseItem-RL-AdditionFailureTDD,
id-RLSpecificCauseItem-RL-ReconfFailure,
id-RLSpecificCauseItem-RL-SetupFailureFDD,
id-RLSpecificCauseItem-RL-SetupFailureTDD,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
.....

.....
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-AdditionFailureTDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD
FROM RNSAP-Constants;
.....

```

```
-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****
```

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

```
RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } |
    { 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 },
    ...
}
```

```
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 ::= {
  ...
}

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,
    sSDT-SupportIndicator          SSDT-SupportIndicator,
    maxUL-SIR                     UL-SIR,
    minUL-SIR                     UL-SIR,
    maximumAllowedULTxPower       MaximumAllowedULTxPower,
    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,
    nonCombiningOrIENotPresent NonCombiningOrIENotPresen-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 ::= {
  ...
}

NonCombiningOrIENotPresen-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPresenIE-RL-SetupFailureFDD }}

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

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

NonCombiningOrIENotPresenItem-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 ::= {
  ...
}

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 ::= {
  ...
}

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,
  txDiversityIndicator  TxDiversityIndicator  OPTIONAL,
  sTTD-SupportIndicator  STTD-SupportIndicator  OPTIONAL,
  closedLoopMode1-SupportIndicator  ClosedLoopMode1-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 ::= {
  ...
}

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

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  c-ID  C-ID,
  uARFCNforNt  UARFCN,
  frameOffset  FrameOffset  OPTIONAL,
  cellParameterID  CellParameterID,
  syncCase  SyncCase,
  timeSlot  TimeSlot  OPTIONAL
  -- This IE is present only if Sync Case = Casel -- ,
  sCH-TimeSlot  SCH-TimeSlot  OPTIONAL
}

```

```

-- This IE is present only if Sync Case = Case2 -- ,
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 ::= {
  { 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 },
  ...
}

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 FAILURE FDD
--
-- *****
```

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

```
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CauseLevel-RL-AdditionFailureFDD          CRITICALITY ignore          TYPE CauseLevel-RL-AdditionFailureFDD
  PRESENCE mandatory }|
  { ID id-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 },
  ...
}
```

```
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      UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
  successful-RL-InformationRespList-RL-AdditionFailureFDD        SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions                                                  ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD
  PRESENCE mandatory },
  ...
}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  cause          Cause,
  iE-Extensions ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}
UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
  PRESENCE mandatory },
  ...
}
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  rL-Set-ID      RL-Set-ID,
  sAI            SAI,
  ul-InterferenceLevel  UL-InterferenceLevel,
  dl-CodeInformation  DL-CodeInformationList-RL-AdditionFailureFDD,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  sSDT-SupportIndicator  SSdT-SupportIndicator,
  minUL-SIR        UL-SIR,
  maxUL-SIR        UL-SIR,

```

```

    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 },
    ...
}

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 ::= {
    ...
}

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

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 ::= {
    ...
}

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,
    uARFCNforNg         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-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNt         UARFCN,
    frameOffset         FrameOffset          OPTIONAL,
    cellParameterID     CellParameterID,
    syncCase            SyncCase,
    timeSlot            TimeSlot            OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot        SCH-TimeSlot        OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    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 ::= {
  { 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 },
  ...
}
```

```
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 RECONFIGURATION FAILURE
--
-- *****

```

```

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

```

```

RadioLinkReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
  { 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 },
  ...
}

```

```

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 } }
  ...
}

```

```

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                                     ProtocolExtensionContainer { { RLSpecificCauseItem-RL-ReconfFailure-ExtIEs} }   OPTIONAL,
|   ...
| ]
|
| RLSpecificCauseItem-RL-ReconfFailure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
|   ...
| }
|
| RL-ReconfigurationFailureList-RL-ReconfFailure ::= RL-IE-ContainerList0 { {RL-ReconfigurationFailure-RL-ReconfFailure-IEs} }
|
| RL-ReconfigurationFailure-RL-ReconfFailure-IEs RNSAP-PROTOCOL-IES ::= {
|   { ID id-RL-ReconfigurationFailure-RL-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 ::= {
|   ...
| }

```

```

.....
-- *****
--
-- IEs
--
-- *****

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-CauseLevel-RL-AdditionFailureFDD INTEGER ::= xxx
id-CauseLevel-RL-AdditionFailureTDD INTEGER ::= xxx
id-CauseLevel-RL-ReconfFailure      INTEGER ::= xxx
id-CauseLevel-RL-SetupFailureFDD    INTEGER ::= xxx
id-CauseLevel-RL-SetupFailureTDD    INTEGER ::= xxx
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-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-GeneralCauseItem-RL-AdditionFailureFDD       INTEGER ::= xxx
id-GeneralCauseItem-RL-AdditionFailureTDD       INTEGER ::= xxx
id-GeneralCauseItem-RL-ReconfFailure            INTEGER ::= xxx
id-GeneralCauseItem-RL-SetupFailureFDD         INTEGER ::= xxx
id-GeneralCauseItem-RL-SetupFailureTDD         INTEGER ::= xxx
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-RLItem-DM-Rprt                INTEGER ::= 138

```

id-RLItem-DM-Rqst	INTEGER ::= 139
id-RLItem-DM-Rsp	INTEGER ::= 140
id-RL-ReconfigurationFailure-RL-ReconfFail	INTEGER ::= 141
<del>id-RL-ReconfigurationFailureList-RL-ReconfFail</del>	<del>INTEGER ::= 142</del>
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
<del>id-RLSpecificCauseItem-RL-AdditionFailureFDD</del>	<del>INTEGER ::= xxx</del>
<del>id-RLSpecificCauseItem-RL-AdditionFailureTDD</del>	<del>INTEGER ::= xxx</del>
<del>id-RLSpecificCauseItem-RL-ReconfFailure</del>	<del>INTEGER ::= xxx</del>
<del>id-RLSpecificCauseItem-RL-SetupFailureFDD</del>	<del>INTEGER ::= xxx</del>
<del>id-RLSpecificCauseItem-RL-SetupFailureTDD</del>	<del>INTEGER ::= xxx</del>
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-UL-SIRTarget	INTEGER ::= 184
id-URA-ID	INTEGER ::= 185
id-URAIItem-PagingRqst	INTEGER ::= 186
<del>id-UnsuccessfulRL-InformationResponse</del>	<del>INTEGER ::= 187</del>
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 188
<del>id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD</del>	<del>INTEGER ::= xxx</del>
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

END





## 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
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG REP	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> <b>DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				combining		
>>Non Combining or IE not present First RL				"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				-	
>>>Time Slot	C-Case1				-	
>>>SCH Time Slot	C-Case2				-	
>>>Cell Individual Offset	O				-	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxno ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>> <i>Non Combining or IE not presentFirst RL</i>				<i>"IE not present" is equivalent to "First RL"</i>	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>>Per FDD Cell Information		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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..&lt;maxno ofTDDneighbours&gt;</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				-	
>>>SCH Time Slot	C-Case2				-	
>>>Cell Individual Offset	O				-	
>>>DPCH Constant Value	O				-	
>>>PCCPCH Power	O				-	
Uplink SIR Target	O		Uplink SIR		-	
Downlink SIR Target	M		Uplink SIR		-	
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.

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

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### 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
    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,
```

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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,

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```
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,  
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{ },
```

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```
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,
maxNrOfRRLs,
maxNrOfRRLSets,
maxNrOfRRLs-1,
maxNrOfRRLs-2,
maxNrOfSCCPCHs,
maxNrOfULTs,
maxNrOfCMPatterns,
maxRNCinURA,
maxNrOfNeighbouringRNCs,
maxNrOfFDDNeighboursPerRNC,
maxNrOfTDDNeighboursPerRNC,
maxFACHCountPlus1,
maxIBSEG,
```

```
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,
```



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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-RL-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-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-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,  
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,

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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-UC-ID,

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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 : 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 } }

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Several messages omitted.
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-- *****
--
-- 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,
    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,
    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,
    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 ::= {
    ...
}

NonCombiningOrFirstRLIEnotPresent-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIEnotPresentIE-RL-SetupRspFDD }}

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

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

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 ::= {
  ...
}
```

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Several messages omitted.
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-- *****
--
-- 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 } |
    { 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 },
    ...
}

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,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  maxUL-SIR UL-SIR,
  minUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  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,
  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 ::= {
  ...
}

NonCombiningOrFirstRLIEnotPresent-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIEnotPresentIE-RL-SetupFailureFDD }}

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

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

NonCombiningOrFirstRLIEnotPresentItem-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 ::= {
    ...
}

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 ::= {
    ...
}

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,
    txDiversityIndicator TxDiversityIndicator    OPTIONAL,
    STTD-SupportIndicator STTD-SupportIndicator    OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopMode1-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 ::= {
...
}
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 -- ,
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 ::= {
...
}
.
.
.
Several messages omitted.
.
.
.

```

## 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-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

```

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```

--
-- *****
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
maxNrOfRRLs                  INTEGER ::= 10
maxNrOfRRLSets              INTEGER ::= 10
maxNrOfRRLs-1                INTEGER ::= 10
maxNrOfRRLs-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
-- *****
--
-- IEs
--
-- *****

id-AllRRLItem-DM-Rprt        INTEGER ::= 0
id-AllRRLItem-DM-Rsp         INTEGER ::= 1
id-AllRRL-SetItem-DM-Rprt    INTEGER ::= 2
id-AllRRL-SetItem-DM-Rsp     INTEGER ::= 3
id-AllowedQueuingTime        INTEGER ::= 4
id-BindingID                  INTEGER ::= 5

```



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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-RL-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

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INTEGER ::= 6  
INTEGER ::= 7  
INTEGER ::= 8  
INTEGER ::= 9  
INTEGER ::= 10  
INTEGER ::= 11  
INTEGER ::= 12  
INTEGER ::= 13  
INTEGER ::= 14  
INTEGER ::= 15  
INTEGER ::= 16  
INTEGER ::= 17  
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INTEGER ::= 47  
INTEGER ::= 48  
INTEGER ::= 49  
INTEGER ::= 50  
INTEGER ::= 51  
INTEGER ::= 52  
INTEGER ::= 53  
INTEGER ::= 54  
INTEGER ::= 55  
INTEGER ::= 56

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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
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-NonCombiningOrFirstRLIENotPresentItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrFirstRLIENotPresentItem-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

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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

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INTEGER ::= 108  
INTEGER ::= 109  
INTEGER ::= 110  
INTEGER ::= 111  
INTEGER ::= 112  
INTEGER ::= 113  
INTEGER ::= 114  
INTEGER ::= 115  
INTEGER ::= 116  
INTEGER ::= 117  
INTEGER ::= 118  
INTEGER ::= 119  
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INTEGER ::= 150  
INTEGER ::= 151  
INTEGER ::= 152  
INTEGER ::= 153  
INTEGER ::= 154  
INTEGER ::= 155  
INTEGER ::= 156  
INTEGER ::= 157  
INTEGER ::= 158

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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
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
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 183
id-UL-SIRTarget	INTEGER ::= 184
id-URA-ID	INTEGER ::= 185
id-URAItem-PagingRqst	INTEGER ::= 186
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

END

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Error! No text of specified style in document.

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.423 CR 139</b>		Current Version: <b>3.1.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #8</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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:** April 2000

**Subject:** Alignment of Notations used in RNSAP

**Work item:**

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

**Reason for change:** In the current RNSAP specification there are some notations being used. The notations are a) tagging of FDD and TDD specific parts and b) the notations used when referring to procedures, messages, IEs, and values of IEs. However, these notations have not been used consistently through out the specification.

This CR aligns the usage of the notations with the agreed notations.

**Clauses affected:** 4.1, 8.2.1.2, 8.2.2, 8.3.1.2, 8.3.2.1, 8.3.4.2, 8.3.7.2, 8.3.8, 8.3.15.2, 8.3.16.2, 8.4.1.2, 8.5.1.2, 9.1.3, 9.1.4, 9.1.5.1, 9.1.7, 9.1.8.1, 9.1.11, 9.1.12.1, 9.1.16, 9.1.17.1, 9.1.24, 9.1.27, 9.1.28, 9.1.29, 9.1.30, 9.1.31, 9.1.32, 9.1.33, 9.1.36.1, 9.1.43, 9.2.1.5, 9.2.1.6, 9.2.1.9, 9.2.1.11, 9.2.1.13, 9.2.1.17, 9.2.1.33, 9.2.1.35, 9.2.1.38, 9.2.1.41, 9.2.1.45, 9.2.1.53, 9.2.1.54, 9.2.1.56, 9.2.1.60, 9.2.1.64, 9.2.1.69, 9.2.2.11, 9.2.2.17, 9.2.2.27, 9.2.2.28, 9.2.2.38, 9.2.2.41, 9.2.2.44, 9.2.2.45, 9.2.2.50, and 9.2.2.51.

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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**Other comments:**

## 4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the CRNC exactly and completely. The SRNC functional behaviour is left unspecified. The [EP-Physical Channel Reconfiguration procedure](#) is an exception from this principle.

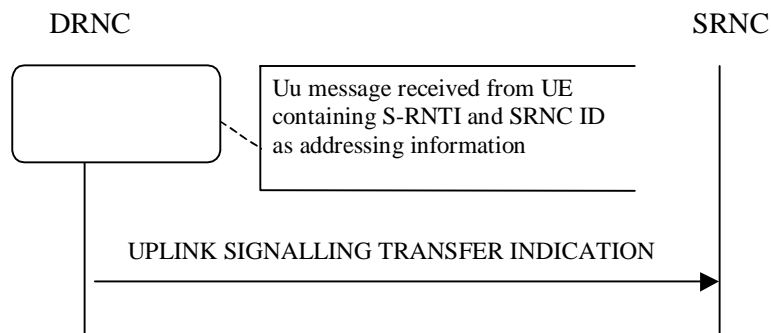
### 8.2.1.2 Successful Operation

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

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

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

If the message received from the UE was the first message from that UE in the DRNC, the DRNC shall include the ~~D-RNTI IE~~ and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

## 8.2.2 Downlink Signalling Transfer

### 8.2.2.1 General

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

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

### 8.2.2.2 Successful Operation

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

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

At the reception of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-Id* ~~C-Id~~ IE to the UE identified by the *D-RNTI* ~~D-RNTI~~.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI", the D-RNTI and thus the UE Context and any DRNS resource allocated to the UE Context shall be released at the reception of the UPLINK SIGNALLING TRANSFER INDICATION message.



**Figure 2: Downlink Signalling Transfer procedure, Successful Operation**

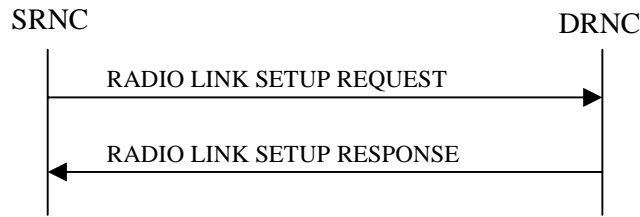
### 8.2.2.3 Abnormal Conditions

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

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



### 8.3.1.2 Successful Operation



**Figure 3: 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 IE* ~~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"~~ *DCH Combination Indicator IE* 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"~~ *value of the DCH Combination Indicator IE* 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*.]

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~~ SRNC 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 IE~~ *RL ID IE* shall be included to indicate with which RL the combination is performed. The Reference ~~RL ID IE~~ shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH 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, and CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator IE* and Tx diversity capability (i.e. *STTD Support Indicator IE*, *Closed Loop Mmode1 Support Indicator IE*, and *Closed Loop Mmode2 Support Indicator IE*) in *Per FDD Cell Information IE* ~~Neighbouring FDD Cell Information~~].

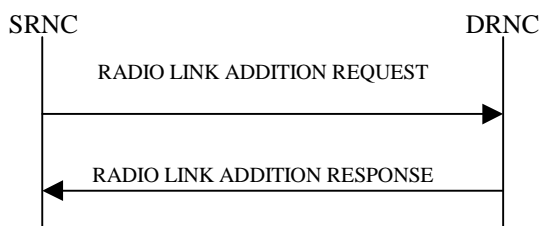
If there was no UE context for this UE in the DRNS before the RADIO LINK SETUP REQUEST message was received the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the ~~D-RNTI IE~~ *D-RNTI* in the RADIO LINK SETUP 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~~" "~~STTD~~", "~~Closed loop mode1~~" "~~Closedloop mode1~~", or "~~Closed loop mode2~~" "~~Closedloop mode2~~", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE.]

### 8.3.2.2 Successful Operation



**Figure 4: Radio Link Addition procedure: Successful Operation**

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

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The ~~Diversity Control Field IE 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.

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 IE Transport Layer Address~~ and the ~~Binding ID IE 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 IE binding ID~~ and the ~~Transport Layer Address IE 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 SSDT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSDT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT 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 - Primary CPICH Power IE~~CPICH Power level~~]/[TDD - PCCPCH Power IE~~PCCPCH Power level~~, DPCH Constant Value IE~~DPCH Constant Value~~], Frame Offset IE ~~Frame Offset of the neighbouring cell~~, [FDD - Tx Diversity Indicator ~~Tx diversity indicator IE~~][FDD], and Tx diversity capability, [FDD] (i.e. STTD Support Indicator IE, Closed Loop M#mode1 Support Indicator IE, and Closed Loop M#mode2 Support Indicator IE) ~~of the neighbouring cell~~.

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

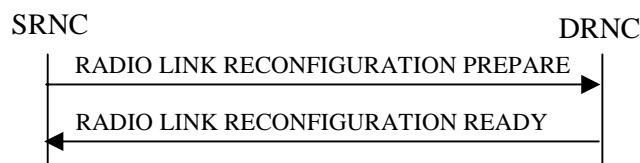
The DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

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

### 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 Indicator IE "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 *value of the DCH Combination Indicator IE "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.]

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.

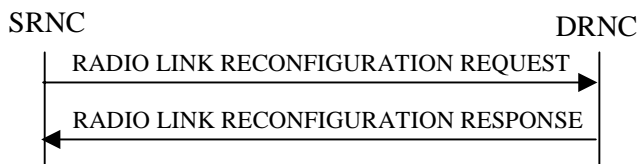
The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

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.



### 8.3.7.2 Successful Operation



**Figure 6: 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

- 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 Indicator IE* "~~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 *value of the DCH Combination Indicator IE* "~~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 ~~the~~ 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 ~~the~~ 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.

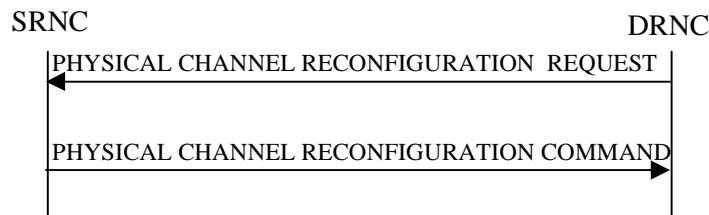
## 8.3.8 Physical Channel Reconfiguration

### 8.3.8.1 General

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

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

### 8.3.8.2 Successful Operation



**Figure 7: Physical Channel Reconfiguration procedure, Successful Operation**

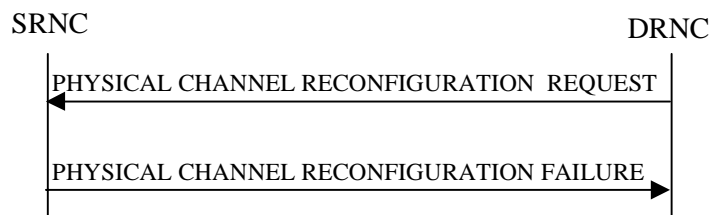
When the DRNC detects the need to modify one of its physical channels, it sends a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

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

Upon reception of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC decides appropriate execution time for the change. It informs the UE and responds with the PHYSICAL CHANNEL RECONFIGURATION COMMAND to the DRNC that includes the *CFN IE CFN* indicating the execution time.

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

### 8.3.8.3 Unsuccessful Operation



**Figure 8: Physical Channel Reconfiguration procedure, Unsuccessful Operation**

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

Typical cause values are:

#### Radio Network Layer Causes:

- Reconfiguration not Allowed.

### 8.3.8.4 Abnormal Conditions

If the DRNC receives any of the *messages* RADIO LINK RECONFIGURATION PREPARE, RADIO LINK RECONFIGURATION REQUEST, or RADIO LINK DELETION REQUEST *messages* while waiting for the

PHYSICAL CHANNEL RECONFIGURATION COMMAND message, this shall be regarded as a Physical Channel Reconfiguration failure. These messages thus override the DRNC request for physical channel reconfiguration.

### 8.3.15.2 Successful Operation



**Figure 9: Downlink Power Control procedure, Successful Operation**

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

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

- | If the value of the *Power Adjustment Type* IE is "Common", the DRNC shall perform the power adjustment (see below) for all radio links for the UE context using a common DL reference power level.
- | If the value of the *Power Adjustment Type* IE is "Individual", the DRNC shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Power per RL.
- | If the value of the *Power Adjustment Type* IE is "None", the DRNS shall suspend on going power adjustments for all radio links for the UE context.

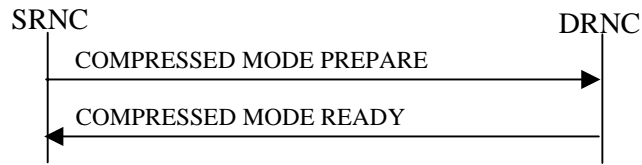
#### **Power Adjustment**

The DRNS performs the power balancing by using the received desired *DL Reference Power* IE as a reference for adjusting the applied DL power.

The adjustment of the power shall be done with constrains given by the included parameters *Max Adjustment Step* IE and *Adjustment Period* IE. The Power adjustment is repeated for every adjustment period.

DRNS shall suspend on going power adjustment operations at the reception of a new DL POWER CONTROL REQUEST message, and then performs the adjustment based on the new parameters.

### 8.3.16.2 Successful Operation



**Figure 10: Compressed Mode Preparation procedure, Successful Operation**

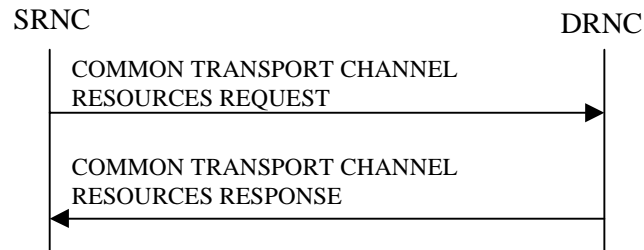
The Compressed Mode Preparation procedure is initiated by the SRNC by sending the COMPRESSED MODE PREPARE message to the DRNC.

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.

### 8.4.1.2 Successful Operation



**Figure 11: Common Transport Channel Resources Initialisation procedure, Successful Operation**

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

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

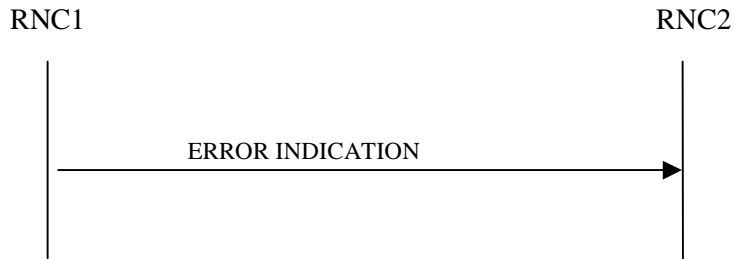
If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE and include the *Binding Identity* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer not Requested", the DRNC shall use the transport bearer for the indicated by the *Transport Bearer ID* IE.

The DRNC shall include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c SDU Length* IEs for each priority class.

If there exists multiple Secondary CCPCHs in the cell where the UE is located, the DRNC may include in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message the *FACH Info for optional S-CCPCH* IE group to be used by the UE which is different from the Secondary CCPCH used by the UE at reception of the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message. If the DRNC includes the *FACH Info for optional S-CCPCH* IE group, then it shall also include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class for the new Secondary CCPCH.

### 8.5.1.2 Successful Operation



**Figure 12: Error Indication procedure, Successful Operation**

When the conditions defined in clause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node. This message shall use the same mode of the signalling bearer and the same signalling bearer connection (if connection oriented) as the message that triggers the procedure.

Typical cause values for the ERROR INDICATION message are:

**Protocol Causes:**

- Transfer Syntax Error
- Abstract Syntax Error (Reject)
- Abstract Syntax Error (Ignore and Notify)
- Message not Compatible with Receiver State
- Unspecified



## 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
<b>UL DPCH Information</b>		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 TFCS	M			TFCS for the UL.	–	
>UL DPCH Slot Format	M				–	
>Uplink SIR Target	O		Uplink SIR		–	
>Diversity mode	M				–	
>D Field Length	C-FB				–	
>SSDT Cell ID-Identity Length	O				–	
>S Field Length	O				–	
<b>DL DPCH Information</b>		1			YES	reject
>Transport Format Combination Set TFCS	M			TFCS for the DL.	–	
>DL DPCH Slot Format	M				–	
>TFCI Signalling Mode	M				–	
>TFCI Presence	C- SlotFormat				–	
>Multiplexing Position	M				–	
<b>&gt;Power Offset Information</b>		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				–	
<b>DCH Information</b>		1..<maxno ofDCHs>			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				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>UL FP Mode	M				–	
> QE-Selector	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC control	M				–	
<b>RL Information</b>		<i>1...&lt;maxn oofRLs&gt;</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-Identity	O				–	
>Transmit Diversity Indicator	C – Diversity mode				–	

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 <b>RL Information</b> .
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.

## 9.1.3.2 TDD 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
<b>UL CTrCH Information</b>		1..<maxno of CTrCHs>			EACH	notify
>CTrCH ID	M				–	
>TFCS	M			For the UL.	–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
<b>DL CTrCH Information</b>		1..<maxno of CTrCHs>			EACH	notify
>CTrCH ID	M				–	
>TFCS	M			For the DL.	–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
>TDD TPC Downlink Step Size	M				–	
<b>DCH Information</b>		1..<maxno of DCHs>			GLOBAL	reject
>DCH ID	M				–	
>CTrCH ID	M			UL CTrCH in which the DCH is mapped	–	
>CTrCH ID	M			DL CTrCH in which the DCH is mapped	–	
>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				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>RL Information</b>		1			YES	reject
>RL ID	M				–	
>C-ID	M				–	
>Frame Offset	M				–	
>Primary CCPCH RSCP	O				–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofCTrCHs	Maximum number of CTrCH 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
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> <b>Secondary CCPCH Info</b>		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				–	
>>Multiplexing Position	M				–	
>>STTD Indicator	M				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>> <b>IB_SG_REP</b> <b>IB_SG_REP</b>	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>> <b>IB_SG_PO</b> <b>SIB_SG_POS</b>	M				–	
> <b>DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>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 for the combining	–	
>> <i>Non Combining or IE not present</i>				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxno of neighbourin gRNCs&gt;</i>			EACH	ignore
>> RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneig hbours&gt;</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 <i>Mmode1</i> Support Indicator	O					
>>>Closed Loop <i>Mmode2</i> Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneig hbours&gt;</i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Sync Case	M				–	
>>>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

## 9.1.4.2 TDD 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	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>> DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DCH Information Response</b>		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighbouringRNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxno ofFDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd [TS25.104]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Cell Individual Offset	O					
>>>Primary CPICH Power	O				–	
>>>Tx Diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop Mode1 Support Indicator	O					
>>>Closed Loop Mode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		0..<maxno ofTDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>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		–	
Downlink SIR Target	M		Uplink SIR		–	
Criticality Diagnostics	O				YES	ignore



<b>Condition</b>	<b>Explanation</b>
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CTrCH.
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
MaxnoofCTrCHs	Maximum number of CTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
<b>Unsuccessful RL Information Response</b>		<i>1..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		<i>0..&lt;maxno ofRLs-1&gt;</i>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		<i>1..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the combining	–	
>>> <i>Non Combining or IE not present</i>				"IE not present" is equivalent to "First RL".	YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		<i>0..&lt;maxno ofDCHs&gt;</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				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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 Mmode1 Support Indicator	O					
>>>Closed Loop Mmode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..&lt;maxno ofTDDneighbours&gt;</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				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		–	
Downlink SIR Target	M		Uplink SIR		–	
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.

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

## 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				-	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				-	
>RL Set ID	M				-	
>SAI	M				-	
>UL Interference Level	M				-	
<b>&gt;Secondary CCPCH Info</b>		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				-	
>>Multiplexing Position	M				-	
>>STTD Indicator	M				-	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			-	
TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	-	
<b>&gt;&gt;Scheduling Information</b>		1			-	
>>>IB_SG_REP B_SG-REP	M				-	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			-	
>>>>IB_SG_POS OSIB_SG-POS	M				-	
<b>&gt;DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL Scrambling Code	M				-	
>>FDD DL Channelisation Code Number	M				-	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		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		0..<maxnoof neighbouringRNCs>			EACH	ignore
>>RNC-Id	M				-	
>>CN PS Domain Identifier	O				-	
>>CN CS Domain Identifier	O				-	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>				
>>>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..<maxnoof TDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt [TS25.105]	-	
>>>Frame Offset	O				-	
>>>Cell Parameter ID	M				-	
>>>Sync Case	M				-	
>>>Time Slot	C-Case1				-	
>>>SCH Time Slot	C-Case2				-	
>>>Cell Individual	O				-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Offset						
>>>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

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
<b>&gt;UL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;UL DPCH Information</b>		1..<maxnoOf fDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
<b>&gt;DL CCTrCH Information</b>		1..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
<b>&gt;&gt;DL DPCH Information</b>		1..<maxnoOf fDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL	–	
>> <i>Non combining</i>					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Address						
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</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 Mmode1 Support Indicator	O					
>>>Closed Loop Mmode2 Support Indicator	O					
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>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.



<b>Range Bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.8 RADIO LINK ADDITION FAILURE

## 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>Unsuccessful RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
<b>Successful RL Information Response</b>		0..<maxnoof RLS-2>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
<b>&gt;DL Code Information</b>		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE diversity indication						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoof DCHs>		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				–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxnoof FDD neighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu [TS25.104]	–	
>>>UARFCN	M			Corresponds to Nd		

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[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..&lt;maxnoof TDDneighbours&gt;</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				–	
>>>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.

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

## 9.1.11 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
<b>UL DPCH Information</b>		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				–	
<b>DL DPCH Information</b>		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				–	
<b>DCHs to Modify</b>		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				–	
<b>DCHs to Add</b>		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				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
<b>RL Information</b>		<i>0..&lt;maxnoof RLs&gt;</i>			EACH	reject
>RL ID	M				–	
>SSDT Indication	O				–	
>SSDT Cell Identity	C - SSDTIndON				–	

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.

## 9.1.11.2 TDD 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
<b>UL CCTrCH Information</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>DL CCTrCH Information</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>DCHs to Modify</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH ID <sub>d</sub>	O			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID <sub>d</sub>	O			DL CCTrCH in which the DCH is mapped	–	
>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				–	
<b>DCHs to Add</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH ID <sub>d</sub>	M			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID <sub>d</sub>	M			DL CCTrCH in which the DCH is mapped	–	
>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	M				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Indicator						
>UL FP Mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs 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				–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
> <b>Secondary CCPCH Info</b>		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				–	
>>Multiplexing Position	M				–	
>>STTD Indicator	M				–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>> <b>IB_SG_REP</b> <b>B_SG_REP</b>	M				–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>> <b>IB_SG_POS</b> <b>OSIB_SG_POS</b>	M				–	
> <b>Downlink Code Information</b>		<i>0..&lt;maxno ofDL Codes&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
> <b>DCH to be Added</b>		<i>0..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall	GLOBAL	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				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				–	
<b>&gt;DCH to be Modified</b>		<i>0..&lt;maxno ofDCHs&gt;</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

## 9.1.16 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
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O			TFCS for the UL.	-	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O			TFCS for the DL.	-	
>TFCI Signalling Mode	O				-	
<b>DCHs to Modify</b>		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				-	
<b>DCHs to add</b>		0..<maxno ofDCHs>			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				-	
>ToAWS	M				-	
>ToAWE	M				-	
>DRAC Control	M				-	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				-	

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

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
<b>UL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
<b>DL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
<b>DCHs to Modify</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH ID	O			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	O			DL CCTrCH in which the DCH is mapped	–	
>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				–	
<b>DCHs to Add</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	M				–	
>Tr-Ch Source Statistics Descriptor	M				–	
>CCTrCH ID	M			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Indicator	O				–	
>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				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>DCH ID	M				-	

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

## 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
<b>RL Information Response</b>		0..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
<b>&gt;Secondary CCPCH Info</b>		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				–	
>>Multiplexing Position	M				–	
>>STTD Indicator	M				–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB <sub>SG</sub> REP <sub>B</sub> SG REP	M				–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB <sub>SG</sub> P <sub>OS</sub> IB <sub>SG</sub> POS	M				–	
<b>&gt;DCH to be Added</b>		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				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;DCH to be Modified</b>		<i>0..&lt;maxno ofDCHs&gt;</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 for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				–	
UC-Id	M				YES	ignore
SAI	M				YES	ignore
C-RNTI	M				YES	ignore
S-RNTI	M				YES	ignore
D-RNTI	O				YES	ignore
L3 Information	M				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
URA ID	M				YES	ignore
Multiple URAs Indicator	M				YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCinURA-1>			GLOBAL	ignore
>RNC-Id	M				–	

Range bound	Explanation
MaxRNCinURA	Maximum number of RNC in one URA

## 9.1.27 PAGING REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID	M				–	
CHOICE <i>paging area</i>					YES	ignore
>"URA"					YES	ignore
>>URA <del>ID-Id</del>	M				–	
>"Cell"					YES	ignore
>>C-Id	M				–	
SRNC-Id	M		RNC-Id		YES	ignore
S-RNTI	M				YES	ignore
IMSI	M				–	
DRX Cycle Length Coefficient	M				YES	ignore



## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID <sub>d</sub>	M				–	
Measurement Id	M				YES	reject
Dedicated Measurement Object Type	M				YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>					YES	ignore
>"RL"					YES	reject
>>RL Information		1..<maxn oofRLs>			EACH	reject
>>>RL ID <sub>d</sub>	M				–	
>>>DPCH ID <sub>d</sub>	O				–	
>"RLS"					YES	reject
>>RL Information		1..<maxn oofRLSets>			EACH	reject
>>>RL Set ID-Set-id	M				–	
Dedicated Measurement Type	M				YES	reject
Measurement Filter Coefficient	O				YES	reject
Report Characteristics	M				YES	reject

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs a measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets a measurement can be started on.

## 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M			Are both transaction id and Measurement id needed ?	-	
Measurement Id	M				YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1..<maxno ofRLs>			EACH	ignore
>>>RL ID	M				-	
>>>DPCH ID	O				-	
>>>Dedicated Measurement Value	M				-	
>"RLS" or "ALL RLS"					YES	ignore
>>RL Set Information		1..<maxno ofRLSets>			EACH	ignore
>>>RL Set ID	M				-	
>>>Dedicated Measurement Value	M				-	
CFN	O			Dedicated Measurement Time Reference	YES	ignore
Criticality Diagnostics	O				YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

## 9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

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

## 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	ignore
Transaction ID <sup>d</sup>	M				–	
Measurement Id	M				YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"						
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL ID <sup>d</sup>	M				–	
>>>DPCH ID <sup>d</sup>	O				–	
>>>Dedicated Measurement Value	M				–	
>"RLS" or "ALL RLS"					–	
>>RL Set Information		1..<maxnoofRLSets>			–	
>>>RL Set ID	M				–	
>>>Dedicated Measurement Value	M				–	
CFN	O			Dedicated Measurement Time Reference	YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of individual RLs the measurement can be started on.
MaxnoofRLSets	Maximum number of individual RL Sets the measurement can be started on.

## 9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

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

## 9.1.33 DEDICATED MEASUREMENT FAILURE INDICATION

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

## 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

## 9.1.36.1 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	ignore
<b>FACH Info for S-CCPCH coupled to PRACH or PCPCH</b>		1			YES	ignore
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
<b>&gt;&gt;MAC-c SDU Length</b>		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
<b>FACH Info for optional S-CCPCH</b>		0..1			YES	ignore
>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [7]	–	
>DL Scrambling Code	M				–	
>FDD DL Channelisation Code Number	M				–	
>TFCS	M			For the DL.	–	
>Secondary CCPCH Slot Format	M				–	
>Multiplexing Position	M				–	
>STTD Indicator	M				–	
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
<b>&gt;&gt;MAC-c SDU Length</b>		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
Transport Layer Address	O				YES	ignore
Binding Identity	O				YES	ignore
Criticality Diagnostics	O				YES	ignore

Range Bound	Explanation
MaxNbMACcSDULength	Maximum number of different MAC-c SDU Lengths.

## 9.1.43 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,...)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport <u>L</u> ink <u>F</u> ailure, Transmission <u>P</u> ort not <u>A</u> vailable, 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,...)	

### 9.2.1.6 Cell Identifier (C-Id)

The C-Id (Cell Identifier) is the identifier of a cell in one RNS.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
C-Id			INTEGER (0...65535)	

## 9.2.1.9 CN CS Domain Identifier

Identification of the CN node in the CS Domain.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CN PS-CS Domain Identifier</b>				
>PLMN Id	M		OCTET STRING (3)	<ul style="list-style-type: none"> <li>- digits 0 to 9, two digits per octet,</li> <li>- each digit encoded 0000 to 1001,</li> <li>- 1111 used as filler</li> <li>- bit 4 to 1 of octet n encoding digit 2n-1</li> <li>- bit 8 to 5 of octet n encoding digit 2n</li> </ul> <p>-The PLMN-ID consists of 3 digits from MCC followed by either</p> <ul style="list-style-type: none"> <li>-a filler plus 2 digits from MNC (in case of 2 digit MNC) or</li> <li>-3 digits from MNC (in case of a 3 digit MNC).</li> </ul>
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed

## 9.2.1.11 Criticality Diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Criticality Diagnostics</b>				
>Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
>Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
>Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
>Transaction ID	O		INTEGER (0..255)	
<b>Information Element Criticality Diagnostics</b>		<i>1..&lt;maxnoof errors&gt;</i>		
>Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'Ignore' shall never be used.
>IE Id	M		INTEGER (0..65535)	The IE Id of the not understood IE as defined in the ASN.1 part of the specification.
>Repetition Number	O		INTEGER (0..255)	The repetition number of the not understood IE if applicable

Range bound	Explanation
maxnooferrors	Maximum number. of IE errors allowed to be reported with a single message. The value for maxnooferrors is 256.

### 9.2.1.13 DCH Combination Indicator

The DCH Combination Indicator is used to indicate the multiplexing of more than one DCH on transport bearer. The value should be unique for each group of coordinated DCH's per request message.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DCH Combination Indicator			INTEGER (0..255)	

## 9.2.1.17 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR <b>V</b> value	C <i>MeasValue</i>		INTEGER(0. .63)	According to mapping in 25.215/25.225
>SIR <b>E</b> error Value	C <i>MeasValue</i>		INTEGER(0. .125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0. .127)	According to mapping in 25.215/25.225
>RSCP	C <i>MeasValue</i>		INTEGER(0. .81)	According to mapping in 25.225 (TDD only)

Condition	Explanation
<i>MeasValue</i>	Only one measurement value can be present at the same time.

## 9.2.1.33 Primary CPICH Power

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH $P_{power}$			ENUMERATED (-10..50)	Unit dBm Granularity 0.1 dB.

### 9.2.1.35 SCH Time Slot

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SCH_Time Slot			INTEGER(0..6)	



### 9.2.1.38 Report Characteristics

The **R**eport **C**haracteristics, defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Report Characteristics</b>				
>Report Characteristics type			ENUMERATED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F, ...)	
<b>&gt;Periodic Report Information</b>	C – Periodic			
>>Report Periodicity	M		ENUMERATED (10ms...1min) step 10ms, (1min...1hr) step 1min	The periodicity with which the DRNS shall send measurement reports. First working assumption!
<b>&gt;Event A</b>	C – Event A			
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min) step 10ms,...	
<b>&gt;Event B</b>	C – Event B			
>>Measurement Threshold	M		Measurement Threshold	The threshold for which the DRNS shall trigger a measurement report.
>>Measurement Hysteresis Time	O		ENUMERATED (10ms...1min) step 10ms,...	
<b>&gt;Event C</b>	C – Event C			
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decrease Threshold	
>>Measurement Change Time	M		ENUMERATED (10ms...1min) step 10ms,...	The time within which the measurement entity shall rise, in order to trigger a measurement report.
<b>&gt;Event D</b>	C – Event D			
>> Measurement Increase/Decrease Threshold	M		Measurement Increase/Decrease Threshold	
>>Measurement Change Time	M		ENUMERATED (10ms...1min) step 10ms,...	The time within which the measurement entity shall fall, in order to trigger a measurement report.
<b>&gt;Event E</b>	C – Event E			
>>Measurement Threshold 1	M		Measurement Threshold	

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

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

### 9.2.1.41 RNC-Id

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
>RNC-Id			INTEGER (0..4095)	

### 9.2.1.45 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Presence			ENUMERATED (Present, not present)	

### 9.2.1.53 Transport Format Combination Set (TFCS)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>TFCS</b>		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>CTFC	M		INTEGER(0..MaxCTFC-1)	Integer number calculated according to ref. [14].
>CHOICE Gain Factors	C-PhysChan			
>>Signalled Gain Factors				
>>>Gain Factor $\beta_c$	M		Integer (0..15)	For UL DPCH or control part of PRACH in FDD; mapping in accordance to TS 25.213
>>>Gain Factor $\beta_D$	M		Integer (0..15)	For UL DPCH or data part of PRACH in FDD; mapping in accordance to TS 25.213
>>>Reference TFC nr	O		Integer (0..15)	If this TFC is a reference TFC, this IE indicates the reference number
>>Computed Gain Factors				
>>>Reference TFC nr	M		Integer (0..15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC

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

Range bound	Explanation
<i>MaxnoofTFCs</i>	The maximum number of Transport Format Combinations (1024).
<i>MaxCTFC</i>	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to ref. [16].

### 9.2.1.54 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transport Format Set</b>				
>Dynamic Transport Format Information		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..4095)	
>>Transport Block Size	C – Blocks		INTEGER (1..5000)	Bits
>CHOICE <i>mode</i>				
>>TDD				
>>>Transmission Time Interval	C-TTIdynamic	1..<maxTTIcount>	Enumerated(10, 20, 40, 80)	
>Semi-static Transport Format Information				
>>Transmission Time Interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>>Type of Channel Coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>>Rate Matching Attribute	M		INTEGER (1..maxRM)	
>>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>>CHOICE <i>mode</i>				
>>>TDD				
>>>>2 <sup>nd</sup> Interleaving Mode	M		Enumerated (Frame related, Timeslot related)	

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

<b>Range bound</b>	<b>Explanation</b>
<i>MaxTFcount</i>	The maximum number of different transport formats that can be included in the Transport format set for one transport channel is 32.
<i>MaxRM</i>	The maximum number that could be set as rate matching attribute for a transport channel is 256.
<i>MaxTTIcount</i>	The amount of different TTI that are possible for that transport format is 4.



## 9.2.1.56 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL FP <del>M</del> mode			ENUMERATED(Normal, Silent)	

### 9.2.1.60 UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UC-ID</b>		1		
>RNC-Id	M		INTEGER (0...4095)	
>C-Id	M		C-ID	

### 9.2.1.64 Cell Individual Offset

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Individual Offset			Integer (-20,...,+20)	-20 -> -10dB -19 -> -9.5dB ... +20 -> +10dB

## 9.2.1.69 PCCPCH Power

Primary CCPCH power is the power that shall be used for reference power value in a TDD cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCCPCH $P_p$ power			INTEGER(-15..40)	Unit dBm Granularity 0.1 dB.

### 9.2.2.11 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink $S_{step}$ $S_{size}$			ENUMERATED (0.5, 1)	

### 9.2.2.17 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiplexing Position <b>Position</b>			ENUMERATED(Fixed, Flexible)	

### 9.2.2.27 SSdT Cell Identity

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSdT Cell Identity			ENUMERATED (a, b.., h)	

### 9.2.2.28 SSdT Cell Identity Length

The SSdT Cell [ID-Identity](#) Length parameter shows the length of the SSdT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<a href="#">SSdT</a> Cell <a href="#">ID-Identity</a> Length			ENUMERATED(Short, Medium, Long)	



### 9.2.2.38 Uplink Delta SIR After

The delta in uplink SIR  $\Delta$ -target that shall be added to the SIR target used one frame after the compressed mode frames.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR $\Delta$ after			Enumerated (-6..+10dB)	Step 0.1 dB.



### 9.2.2.41 Tx Diversity Indicator

The Tx Diversity Indicator indicates if the following conditions are satisfied:

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

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

#### 9.2.2.44 Closed Loop Mode1 Support Indicator

The Closed Loop Mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Mode1 Support Indicator			ENUMERATED (Closed loop mode1 Supported, Closed loop mode1 not supported).	

### 9.2.2.45 Closed Loop Mode2 Support Indicator

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

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

## 9.2.2.50 IB\_SG\_POS

First position of an Information Block segment in the SFN cycle ( $IB\_SG\_POS < IB\_SG\_REP$ ).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<u>IB_SG_POS</u> <del>IB_SG_POS</del>			INTEGER (0..2 <sup>12</sup> -1)	

## 9.2.2.51 IB\_SG\_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when  $SFN \bmod IB\_SG\_REP = IB\_SG\_POS$ .

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<u>IB_SG_REP</u> <del>IB_SG_REP</del>			INTEGER (16, 32, 64, 128, 256, 512, 1024,2048)	Repetition period for the IB segment in frames

### 9.2.2.52 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power_Adjustment Type			ENUMERATED (None, Common, Individual)	