

**TSG-RAN Meeting #10  
Bangkok, Thailand, 6 - 8 December 2000**

**TSGRP#10(00)0620**

**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_Categor	WG_Status	Cur_Ver_Nu	New_Ver_Nu
R3-003031	25.423	257		Timing advance enable clarification	F	agreed	3.3.0	3.4.0
R3-003172	25.423	259	1	Relation between UL and DL CCTrCH for TPC	F	agreed	3.3.0	3.4.0
R3-003276	25.423	260	2	Variability of SF in UL Physical Channel for TDD	F	agreed	3.3.0	3.4.0
R3-003189	25.423	268	1	RNSAP Extensibility aspects (RB Mapping text)	F	agreed	3.3.0	3.4.0
R3-003231	25.423	269	1	Correction for ProtocolLE-Single-Container: Update to	F	agreed	3.3.0	3.4.0
R3-003176	25.423	270	1	Editorial Clarifications to RNSAP	D	agreed	3.3.0	3.4.0
R3-003139	25.423	271		Clarification of Assignments of ASN.1 Constants	F	agreed	3.3.0	3.4.0
R3-003243	25.423	274	1	Clarification of SAI Definition	F	agreed	3.3.0	3.4.0
R3-003226	25.423	275	1	Round trip time (UTRAN) for RNSAP	F	agreed	3.3.0	3.4.0
R3-003181	25.423	276		Dated References to RAN WG4 specs	F	agreed	3.3.0	3.4.0
R3-003183	25.423	277		Introduction of extension of ddMode	F	agreed	3.3.0	3.4.0
R3-003219	25.423	278	1	Extensibility Correction for DCH Information Response	F	agreed	3.3.0	3.4.0

R3-003263	25.423	280		Clarification of the uplink and downlink signalling transfer	F	agreed	3.3.0	3.4.0
R3-003281	25.423	281		introduction of Alpha value for RNSAP Signalling	F	agreed	3.3.0	3.4.0

CR-Form-v3

## CHANGE REQUEST

⌘ **25.423 CR 257** ⌘ rev **-** ⌘ Current version: **3.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Timing Advance Enable Clarification		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘	<b>Date:</b>	⌘ November 2000
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ R99
<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)	

R-WG3

<b>Reason for change:</b>	⌘ The parameter that is used to signal whether timing advance is applied does not correspond to the same parameter as in NBAP therefore confusion exists
<b>Summary of change:</b>	⌘ This CR defines the timing advance enable IE in a similar manner as NBAP, eliminating any confusion.
<b>Consequences if not approved:</b>	⌘ If this CR was not approved Confusion can exist over the use of timing advance and threaten interoperability.

<b>Clauses affected:</b>	⌘ 9.1.4, 9.1.7, 9.2.3.12A , 9.4		
<b>Other specs affected:</b>	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
<b>Other comments:</b>	⌘		

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 9.1.4 RADIO LINK SETUP RESPONSE

## 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>RSSI	M		9.2.2.35A		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>Diversity Indication	C-NotFirstRL		9.2.2.7		–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or 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		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<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		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Adjustment Required Advance Applied	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf TS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>DL Timeslot Information		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>DL Code Information		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighbo uringRNCs >			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>RSSI	M		9.2.2.35A		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> <b>DL Code Information</b>		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>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		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>urs&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Timing <u>Advance</u> <u>AppliedAdjustment Required</u>	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOfTS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOfDPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		1 to <maxnoOfTS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		1 to <maxnoOfDPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Channelisation Code						
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>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		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULength>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE <i>Diversity Indication</i>					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>>CHOICE <i>Diversity Indication</i>					–	
>>>Non					–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<i>combining</i>						
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbo urs&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbo urs&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

### 9.2.3.12A — Timing Adjustment Required

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Timing Adjustment Required			ENUMERATED (NoAdjustment, AdjustmentNecessary)	

### 9.2.3.12A Timing Advance Applied

Defines the need for Timing Advance functions such as Rx Timing Deviation measurement in a particular cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Timing Advance Applied			ENUMERATED (Yes, No)	

### 9.2.3.13 Transport Format Management

Defines whether the cell transmits the transport format information via broadcast or whether the transport format information is transmitted to the UE using dedicated RRC procedures

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Management			ENUMERATED (Cell Based, UE Based,...)	

### 9.2.3.13A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the DRNS, see ref. [14].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Timeslot ISCP			INTEGER (0..81)	According to mapping in [14].

### 9.2.3.14 USCH ID

The USCH ID is the identifier of an uplink shared channel. It is unique among the USCHs simultaneously allocated for the same UE.

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

### 9.3.3 PDU Definitions

```

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

RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
  Active-Pattern-Sequence-Information,
  AllocationRetentionPriority,
  AllowedQueuingTime,
  BLER,
  Block-STTD-Indicator,
  BindingID,
  C-ID,
  C-RNTI,
  CCTrCH-ID,
  CellIndividualOffset,
  CFN,
  ClosedLoopMode1-SupportIndicator,
  ClosedLoopMode2-SupportIndicator,
  ClosedloopTimingadjustmentmode,
  CN-CS-DomainIdentifier,
  CN-PS-DomainIdentifier,
  Cause,
  CellParameterID,
  ChipOffset,
  CriticalityDiagnostics,
  D-RNTI,
  D-RNTI-ReleaseIndication,
  DCH-ID,
  DL-DPCH-SlotFormat,
  DL-TimeslotISCP,
  DL-Power,

```

DL-ScramblingCode,  
DPCHConstantValue,  
DPCH-ID,  
DRACControl,  
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DiversityControlField,  
DiversityMode,  
DSCH-ID,  
FACH-InitialWindowSize,  
SchedulingPriorityIndicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
GA-AccessPointPosition,  
GA-Cell,  
IB-SG-POS,  
IB-SG-REP,  
IMSI,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrDLPhysicalchannels,  
MaxNrOfUL-DPCHs,  
MaxNrTimeslots,  
MaxNrULPhysicalchannels,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftAndBurstType,  
MinimumSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultipleURAsIndicator,  
MultiplexingPosition,  
NrOfDLchannelisationcodes,  
PDSCHCodeMapping,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PRACH-Midamble,  
PRACH-MinimumSpreadingFactor,  
PreambleSignatures,  
PrimaryCCPCH-RSCP,  
PrimaryCPICH-EcNo,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,

PropagationDelay,  
PunctureLimit,  
QE-Selector,  
RACH-SubChannelNumbers,  
RANAP-RelocationInformation,  
RB-Identity,  
RL-ID,  
RL-Set-ID,  
RNC-ID,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
RSSI,  
S-FieldLength,  
S-RNTI,  
SCH-TimeSlot,  
SAI,  
SN,  
SSDT-CellID,  
SSDT-CellID-Length,  
SSDT-Indication,  
SSDT-SupportIndicator,  
STTD-Indicator,  
STTD-SupportIndicator,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
SyncCase,  
TDD-ChannelisationCode,  
TDD-DPCHOffset,  
TDD-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
TimingAdjustmentRequiredTimingAdvanceApplied,  
ToAWE,  
ToAWS,  
TransmitDiversityIndicator,  
TransportBearerID,  
TransportBearerRequestIndicator,  
TFCS,  
Transmission-Gap-Pattern-Sequence-Information,  
Transmission-Gap-Pattern-Sequence-Information-Response,  
TransportFormatManagement,  
TransportFormatSet,  
TransportLayerAddress,  
TrCH-SrcStatisticsDescr,

TxDiversityIndicator,  
UARFCN,  
UC-ID,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-ScramblingCode,  
UL-TimeslotISCP,  
URA-ID,  
USCH-ID

```

-- *****
--
-- 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-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower    DL-Power,
    minimumDLTxPower    DL-Power,
    timingAdjustmentRequired timingAdvanceApplied TimingAdjustmentRequired TimingAdvanceApplied,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
    dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
    iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

```



```

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    iSCP                    UL-TimeslotISCP,
    iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

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

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

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID              CCTrCH-ID,
    ul-DPCH-Information    UL-DPCH-InformationList-RL-SetupRspTDD    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD} }

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

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tDD-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-SetupRspTDD            UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

UL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem-RL-SetupRspTDD

UL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType      MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    uL-Code-InformationList-RL-SetupRspTDD      UL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-SetupRspTDD

UL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                  DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions              ProtocolExtensionContainer { {UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

} { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE DL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory}
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tDD-DPCHOffset        TDD-DPCHOffset,
    dL-Timeslot-InformationList-RL-SetupRspTDD      UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-RL-SetupRspTDD

DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    midambleShiftAndBurstType      MidambleShiftAndBurstType,
    tFCI-Presence          TFCI-Presence,
    dL-Code-InformationList-RL-SetupRspTDD      DL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-SetupRspTDD

DL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {DL-Code-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { 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 ::= {
    ...
}

DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}

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

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

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspTDD,
    bindingID             BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions        ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}

```

```
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationListIES-RL-SetupRspTDD      CRITICALITY ignore  TYPE USCH-InformationListIES-RL-SetupRspTDD PRESENCE mandatory }
}

USCH-InformationListIES-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  usch-ID                USCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  transportFormatManagement TransportFormatManagement,
  iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIES} } OPTIONAL,
  ...
}

USCHInformationItem-RL-SetupRspTDD-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

```

-- *****
--
-- RADIO LINK 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,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition
    GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot
    UL-InterferenceList-RL-AdditionRspTDD,
    timingAdjustmentRequiredTimingAdvanceApplied
    TimingAdjustmentRequiredTimingAdvanceApplied,
    ul-CCTrCHInformation
    UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    dl-CCTrCHInformation
    DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    diversityIndication
    DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR            UL-SIR,
    maxUL-SIR            UL-SIR,
    maximumAllowedULTxPower
    MaximumAllowedULTxPower,
    maximumDLTxPower    DL-Power,
    minimumDLTxPower    DL-Power,
    dSCH-InformationResponse
    DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponse
    USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    neighbouring-CellInformationList
    Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-AdditionRspTDD

```

```

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    iSCP                    UL-TimeslotISCP,
    iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD

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

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

UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD    PRESENCE mandatory }
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tDD-DPCHOffset         TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-AdditionRspTDD    UL-Timeslot-InformationList-RL-AdditionRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...) ) OF UL-Timeslot-InformationItem-RL-AdditionRspTDD

```

```

UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRspTDD    UL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationItem-RL-AdditionRspTDD

UL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

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

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

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

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

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

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

```



```

}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tDD-DPCHOffset            TDD-DPCHOffset,
    dL-Timeslot-InformationList-RL-AdditionRspTDD          UL-Timeslot-InformationList-RL-AdditionRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-RL-AdditionRspTDD

DL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    dL-Code-InformationList-RL-AdditionRspTDD          DL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-InformationItem-RL-AdditionRspTDD

DL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                    DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions              ProtocolExtensionContainer { {DL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Single-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-Single-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-Single-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 ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

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

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

DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}

```

```

DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore  TYPE DSCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD

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

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

PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-AdditionRspTDD

PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
  schedulingPriorityIndicator  SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths        MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
  iE-Extensions               ProtocolExtensionContainer { {PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
  bindingID                BindingID,
  transportLayerAddress     TransportLayerAddress,
  iE-Extensions            ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
  ...
}

DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore  TYPE USCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

```

```
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
```

```
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
    uSCH-ID                USCH-ID,  
    transportFormatManagement TransportFormatManagement,  
    diversityIndication    DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,  
    -- diversityIndication present, if CHOICE = nonCombining  
    iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,  
    ...  
}
```

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

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

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

TDD-DPCHOffset ::= CHOICE {
    initialOffset      INTEGER (0..255),
    noinitialOffset    INTEGER (0..63)
}

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

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

```

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

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

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

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

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

TGPSID             ::= INTEGER (1.. maxTGPS)

TGSN               ::= INTEGER (0..14)

TimeSlot           ::= INTEGER (0..14)

TimingAdjustmentRequiredTimingAdvanceApplied ::= ENUMERATED {
    noAdjustmentyes,
    adjustmentRequiredno
}

ToAWE              ::= INTEGER (0..2559)

ToAWS              ::= INTEGER (0..1279)

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
    SEQUENCE {
        tGPSID          TGPSID,
        tGSN            TGSN,
        tGL1            GapLength,
        tGL2            GapLength OPTIONAL,
    }

```

```

tGD                TGD,
tGPL1              GapDuration,
tGPL2              GapDuration OPTIONAL,
uL-DL-mode         UL-DL-mode,
downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
  -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
uplink-Compressed-Mode-Method Uplink-Compressed-Mode-Method OPTIONAL,
  -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
dL-FrameType       DL-FrameType,
delta-SIR1          DeltaSIR,
delta-SIR-after1    DeltaSIR,
delta-SIR2          DeltaSIR OPTIONAL,
delta-SIR-after2    DeltaSIR OPTIONAL,
iE-Extensions       ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
  ...
}

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

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

Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
  SEQUENCE {
    tGPSID          TGPSID,
    tGPRC           TGPRC,
    tGCFN           CFN,
    iE-Extensions   ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
    ...
  }

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

TransmissionTimeInterval ::= ENUMERATED {

```

```

    msec-10,
    msec-20,
    msec-40,
    msec-80,
    ...
}

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

TransportBearerID ::= INTEGER (0..4095)

TransportBearerRequestIndicator ::= ENUMERATED {
    bearer-requested,
    bearer-not-requested
}

TransportBlockSize ::= INTEGER (0..5000)
-- Unit is bits

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

TFCS ::= SEQUENCE {
    tFCSvalues CHOICE {
        no-Split-in-TFCI TFCS-TFCSList,
        split-in-TFCI SEQUENCE {
            transportFormatCombination-DCH TFCS-DCHList,
            signallingMethod CHOICE {
                tFCI-Range TFCS-MappingOnDSCHList,
                explicit TFCS-DSCHList
            }
        }
    },
    iE-Extensions ProtocolExtensionContainer { { TFCS-ExtIEs } } OPTIONAL,
    ...
}

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

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF

```



```

SEQUENCE {
    cTFC                TFCS-CTFC,
    tFC-Beta            TransportFormatCombination-Beta    OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }    OPTIONAL,
    ...
}

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

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

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
    SEQUENCE {
        cTFC                TFCS-CTFC,
        iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }    OPTIONAL,
        ...
    }

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

TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
        maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
        cTFC-DSCH                TFCS-CTFC,
        iE-Extensions           ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs } }    OPTIONAL,
        ...
    }

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

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)

TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEQUENCE {
        cTFC-DSCH                TFCS-CTFC,
        iE-Extensions           ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs } }    OPTIONAL,
        ...
    }

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

TransportFormatSet ::= SEQUENCE {
    dynamicParts                TransportFormatSet-DynamicPartList,

```

```

    semi-staticPart      TransportFormatSet-Semi-staticPart,
    iE-Extensions        ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransportFormatManagement ::= ENUMERATED {
    cell-based,
    ue-based,
    ...
}

```

```

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

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

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

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

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

TxDiversityIndicator      ::= ENUMERATED {
    true,
    false
}

-- U

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

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

```

# 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 259r1**

Current Version: **V 3.3.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN #10**  
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:** 20 Nov 2000

**Subject:** Relation between UL and DL CCTrCH for TPC

**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:** While it is possible to allocate zero UL CCTrCHs, the reference to UL TPC did assume at least one UL CCTrCH. This CR corrects this mismatch.  
**Consequences if not accepted:** Inconsistency in the specification

**Clauses affected:** 9.1.3.2; 9.1.11.2; 9.3.3

**Other specs affected:** Other 3G core specifications  → List of CRs: 25.433  
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.

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
SRNC-Id	M		RNC-Id 9.2.1.50		YES	reject
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL Physical Channel Information</b>		1			EACH	reject
>Maximum Timeslot per frame	M		9.2.3.3A	For the UL		
>Minimum Spreading Factor	M		9.2.3.4A	For the UL		
>Maximum number of UL physical channels per timeslot	M		9.2.3.3B			
<b>DL Physical Channel Information</b>		1			EACH	reject
>Maximum Timeslot per frame	M		9.2.3.3A	For the DL		
>Minimum Spreading Factor	M		9.2.3.4A	For the DL		
>Maximum number of DL physical channels per frame	M		9.2.3.3C			
<b>UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and USCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
<b>DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and DSCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
>TDD TPC Downlink Step Size	M		9.2.3.10		–	
<b>&gt;TPC CCTrCH List</b>		4Q to <maxnoCCTrCH>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.2		–	
<b>DCH Information</b>		0..<maxno of DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is	–	

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

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

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

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCTrCH to add</b>		0..<maxno of CCTrCHs>		For DCH and USCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.40		–	
<b>UL CCTrCH to modify</b>		0..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>UL CCTrCH to delete</b>		0..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH to add</b>		0..<maxno of CCTrCHs>		For DCH and DSCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
<b>&gt;TPC CCTrCH List</b>		40 to <maxno CCTrCH>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.2		–	
<b>DL CCTrCH to modify</b>		0..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;TPC CCTrCH List</b>		0 to <maxno CCTrCH>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		–	
<b>DL CCTrCH to delete</b>		0..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
<b>DCHs to Add</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxno ofDCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	For the UL.	–	
>>BLER	M		9.2.1.3	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	C-CoordDCH		9.2.1.46A		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxno ofDCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCHs to Modify</b>		<i>0..&lt;maxno ofDSCHs&gt;</i>			GLOBAL	reject
>DSCH ID	M				–	
>CCTrCH Id	O			DL CCTrCH in which the DSCH is mapped.	–	
>TrCh Source Statistics Descriptor	O				–	
>Transport Format Set	O				–	
>Allocation/Retention Priority	O				–	
>Scheduling Priority Indicator	O				–	
>BLER	O				–	

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

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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofRBs	Maximum number of Radio Bearers for one UE.

### 9.3.3 PDU Definitions

```

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

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

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

CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD

CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions      ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
/** snip */

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

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

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

```

```

}

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCCTrCH-ID          CCTrCH-ID,
    iE-Extensions      ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

/** snip */

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

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

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCCTrCH-ID          CCTrCH-ID,
    iE-Extensions      ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

/** snip */

```

**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 260r2**

Current Version: **V 3.3.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN #10**  
 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:** 23 Nov 2000

**Subject:** Variability of SF in UL Physical Channel for TDD mode

**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:** In TSG RAN WG1, there is an effort to introduce enabling/disabling the autonomous variation of SF by UE in UL transmissions. This CR provides the corresponding changes to WG3 specification to support the WG1 controlling mechanism.  
Consequences if not accepted:  
 Inconsistency between Working Groups specifications as WG1 and WG2 agreed to adopt control for the SF variation.

**Clauses affected:** 9.1.4.2; 9.1.7.2; 9.2.3.13B; 9.3.3; 9.3.4

**Other specs affected:** Other 3G core specifications  → List of CRs: 25.221CR34; 25.222CR50; 25.331CR618; 25.433CR308r2  
 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:** Changes compared to revision 1 (in R3-003206):  
 • 'UL\_SF\_variation\_allowed' changed into 'UL\_SF\_variation\_supported'  
 • 'UL\_SF\_variation\_NOT\_allowed' changed into 'UL\_SF\_variation\_NOT\_supported'  
 • Description of IE is referring to 'Radio Link' instead of 'Physical Channel'



<----- 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

### 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	Reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	Ignore
CN PS Domain Identifier	O		9.2.1.12		YES	Ignore
CN CS Domain Identifier	O		9.2.1.11		YES	Ignore
<b>RL Information Response</b>		1			YES	Ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<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		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
>UL PhysCH SF Variation	M		9.2.3.13B		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf TS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;DL CCTrCH Information</b>		<i>0..&lt;maxno ofCCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.x		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		<i>1 to &lt;maxnoOf TS&gt;</i>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		<i>1 to &lt;maxnoOf DPCH&gt;</i>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DCH Information Response</b>		<i>1..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
<b>&gt;DSCH Information Response</b>		<i>0.. &lt;Maxnoof DSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M				–	
<b>&gt;&gt;Priority Indicator</b>		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		<i>1..&lt;MaxNb MAC-c/shSDUL ength&gt;</i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;USCH Information Response</b>		<i>0.. &lt;Maxnoof USCHs&gt;</i>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbo</i>			EACH	ignore



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		uringRNCs >				
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofU Lts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
—>Timing Adjustment Required	M		9.2.3.12A		–	
<a href="#">&gt;UL PhysCH SF Variation</a>	<a href="#">M</a>		<a href="#">9.2.3.13B</a>		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOfT S>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		1 to <maxnoOfT S>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift	M		9.2.3.4		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
and Burst Type						
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE diversity indication						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>Non combining					YES	ignore
<b>&gt;&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		9.2.1.16		–	
>>>>>Binding ID	M		9.2.1.3		–	
>>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
<b>&gt;DSCH Information Response</b>		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
<b>&gt;&gt;Priority Indicator</b>		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
<b>&gt;&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxNb MAC- c/shSDULen gth>			–	
>>>>>MAC-c/sh SDU Length	M				–	
<b>&gt;&gt;CHOICE Diversity Indication</b>					–	
>>>Non combining					–	
>>>>>BindingID	M				–	
>>>>>Transport Layer Address	M				–	
<b>&gt;USCH Information Response</b>		0 .. <Maxnoof			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>USCHs</i> >				
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>> <b>CHOICE Diversity Indication</b>					–	
>>> <i>Non combining</i>					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
> <b>Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>> <b>Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>> <b>Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

### 9.2.3.13 Transport Format Management

Defines whether the cell transmits the transport format information via broadcast or whether the transport format information is transmitted to the UE using dedicated RRC procedures

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Management			ENUMERATED (Cell Based, UE Based,...)	

### 9.2.3.13A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the DRNS, see ref. [14].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Timeslot ISCP			INTEGER (0..81)	According to mapping in [14].

### 9.2.3.13B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL PhysCH SF Variation			ENUMERATED (SF_Variation_supported, SF_Variation_NOT_supported)	

### 9.2.3.14 USCH ID

The USCH ID is the identifier of an uplink shared channel. It is unique among the USCHs simultaneously allocated for the same UE.

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

### 9.3.3 PDU Definitions

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

RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
  Active-Pattern-Sequence-Information,
  AllocationRetentionPriority,
  AllowedQueuingTime,
  BLER,
  Block-STTD-Indicator,
  BindingID,
  C-ID,
  C-RNTI,
  CCTrCH-ID,
  CellIndividualOffset,
  CFN,
  ClosedLoopModel-SupportIndicator,
  ClosedLoopMode2-SupportIndicator,
  Closedlooptimingadjustmentmode,
  CN-CS-DomainIdentifier,
  CN-PS-DomainIdentifier,
  Cause,
  CellParameterID,
  ChipOffset,
  CriticalityDiagnostics,
  D-RNTI,
  D-RNTI-ReleaseIndication,
  DCH-ID,
  DL-DPCH-SlotFormat,
  DL-TimeslotISCP,
  DL-Power,
  DL-ScramblingCode,
```



DPCHConstantValue,  
DPCH-ID,  
DRACControl,  
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DiversityControlField,  
DiversityMode,  
DSCH-ID,  
FACH-InitialWindowSize,  
SchedulingPriorityIndicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
GA-AccessPointPosition,  
GA-Cell,  
IB-SG-POS,  
IB-SG-REP,  
IMSI,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrDLPhysicalchannels,  
MaxNrOfUL-DPCHs,  
MaxNrTimeslots,  
MaxNrULPhysicalchannels,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftAndBurstType,  
MinimumSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultipleURAsIndicator,  
MultiplexingPosition,  
NrOfDLchannelisationcodes,  
PDSCHCodeMapping,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PRACH-Midamble,  
PRACH-MinimumSpreadingFactor,  
PreambleSignatures,  
PrimaryCCPCH-RSCP,  
PrimaryCPICH-EcNo,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,

PunctureLimit,  
QE-Selector,  
RACH-SubChannelNumbers,  
RANAP-RelocationInformation,  
RB-Identity,  
RL-ID,  
RL-Set-ID,  
RNC-ID,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
RSSI,  
S-FieldLength,  
S-RNTI,  
SCH-TimeSlot,  
SAI,  
SN,  
SSDT-CellID,  
SSDT-CellID-Length,  
SSDT-Indication,  
SSDT-SupportIndicator,  
STTD-Indicator,  
STTD-SupportIndicator,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
SyncCase,  
TDD-ChannelisationCode,  
TDD-DPCHOffset,  
TDD-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
TimingAdjustmentRequired,  
ToAWE,  
ToAWS,  
TransmitDiversityIndicator,  
TransportBearerID,  
TransportBearerRequestIndicator,  
TFCS,  
Transmission-Gap-Pattern-Sequence-Information,  
Transmission-Gap-Pattern-Sequence-Information-Response,  
TransportFormatManagement,  
TransportFormatSet,  
TransportLayerAddress,  
TrCH-SrcStatisticsDescr,  
TxDiversityIndicator,

UARFCN,  
UC-ID,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-PhysCH-SF-Variation,  
UL-ScramblingCode,  
UL-TimeslotISCP,  
URA-ID,  
USCH-ID  
FROM RNSAP-IEs

/\*\* snip \*\*/

```
/** snip */
```

```
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-CriticalityDiagnostics  CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}
```

```
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  uRA-ID         URA-ID,
  sAI           SAI,
  gA-Cell       GA-Cell OPTIONAL,
  gA-AccessPointPosition  GA-AccessPointPosition OPTIONAL,
  ul-InterferencePerTimeslot  UL-InterferenceList-RL-SetupRspTDD,
  maxUL-SIR     UL-SIR,
  minUL-SIR     UL-SIR,
  maximumAllowedULTxPower  MaximumAllowedULTxPower,
  maximumDLTxPower  DL-Power,
  minimumDLTxPower  DL-Power,
  timingAdjustmentRequired  TimingAdjustmentRequired,
  ul-PhysCH-SF-Variation  UL-PhysCH-SF-Variation,
  ul-CCTrCHInformation  UL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
  dl-CCTrCHInformation  DL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
  dCH-InformationResponse  DCH-InformationResponseList-RL-SetupRspTDD,
  dsch-InformationResponse  DSCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
  usch-InformationResponse  USCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
  neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
  -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
  iE-Extensions  ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

```
/** snip */
```

```
/** snip */
```

```
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponse-RL-AdditionRspTDD
    CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}
```

```
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
  rL-ID RL-ID,
  uRA-ID URA-ID,
  sAI SAI,
  gA-Cell GA-Cell OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
  ul-InteferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
  timingAdjustmentRequired TimingAdjustmentRequired,
  ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
  ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  diversityIndication DiversityIndication-RL-AdditionRspTDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  minUL-SIR UL-SIR,
  maxUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  maximumDLTxPower DL-Power,
  minimumDLTxPower DL-Power,
  dSCH-InformationResponse DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

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

```
/** snip */
```

## 9.3.4 Information Element Definitions

```

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

/** snip **/

-- U

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

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

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    ...
}

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

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

UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCCH-SlotFormat ::= INTEGER (0..5,...)

UL-FP-Mode ::= ENUMERATED {
    normal,

```

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

```
UL-PhysCH-SF-Variation ::= ENUMERATED {  
sf-variation-supported,  
sf-variation-not-supported  
}
```

```
UL-ScramblingCode ::= SEQUENCE {  
    ul-ScramblingCodeNumber    UL-ScramblingCodeNumber,  
    ul-ScramblingCodeLength    UL-ScramblingCodeLength,  
    iE-Extensions              ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL  
}
```

```
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```
UL-ScramblingCodeLength ::= ENUMERATED {  
    short,  
    long  
}
```

```
/** snip **/
```

## CHANGE REQUEST

**25.423 CR 268**

rev **1**

Current version: **3.3.0**

**Proposed change affects:** (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	RNSAP Extensibility aspects (RB Mapping text)		
<b>Source:</b>	R-WG3		
<b>Work item code:</b>		<b>Date:</b>	Nov 2000
<b>Category:</b>	<b>F</b>	<b>Release:</b>	R99
	<p><i>Use <u>one</u> of the following categories:</i></p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p><i>Use <u>one</u> of the following releases:</i></p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>

<b>Reason for change:</b>	In WG3 #16, group agreed that lub/lur extensibility aspects were not handled in a good way. Base on R3-2862, group divided the work and Nokia promised to take 2.2(which is related to RNSAP & NBAP) and 3.10.5(which is related to only RNSAP).
<b>Summary of change:</b>	<p>Rev 1</p> <p>1. DNRS -&gt; DRNS</p> <p>2. Only changes which this contribution proposes are using revision mark.</p> <p>The RB Mapping in the <i>USCHs to Modify IE</i> in the RADIO LINK RECONFIGURATION PREPARE message(TDD) changed to <i>optional</i>.</p> <p>Synchronized RL reconfiguraiton procedure text was restructured in WG3 #16 meeting and R3-2854(CR232r2) has been approved. This CR includes all modifications which are included in CR232r2 and <i>RB Info</i> IE description as well.</p>
<b>Consequences if not approved:</b>	IEs will not be flexible enough for future extention and specification will not be clear.

<b>Clauses affected:</b>	8.3.4.2	
<b>Other specs affected:</b>	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	TS25.423 CR232, TS25.423 CR241
<b>Other comments:</b>	CR232 were implemented already in this CR. Only proposed changes are using the revision mark.	



## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

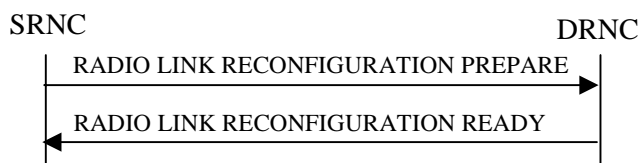
### 8.3.4.1 General

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 any *DCHs to Modify* IEs then the DRNS shall treat them each as follows:

- If the *DCHs to Modify IE* includes the *UL FP Mode IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWS IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWE IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify IE* as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info IE* 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 *DCH Specific Info IE* 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE 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.
- [FDD - If, in the *DCH Specific Info* IE, the *DRAC Control* IE is present and set to "requested" for at least one DCH and if the DRNS 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 DRNS does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD - If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the ~~DNRS-DRNS~~ shall map the DCH onto the referenced UL CCTrCH.]
- [TDD - If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the ~~DNRS-DRNS~~ shall map the DCH onto the referenced DL CCTrCH.]

#### DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs to Add* IE includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected ", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected ", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- [FDD - For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected " shall be used for the QE in the UL data frames, ref. [4]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected " the Physical channel BER shall be used for the QE, ref. [4].]
- The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.
- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [FDD - If the *DRAC Control* IE is set to "requested" in the *DCH Specific Info* IE for at least one DCH and if the DRNS 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 DRNS 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 Delete*, the DRNS shall not include the referenced DCHs in the new configuration.

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

#### Physical Channel Modification:

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

- [FDD - If the *UL DPCH Information IE* includes the *Uplink Scrambling Code IE*, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD - If the *UL DPCH Information IE* includes the *Min UL Channelisation Code Length IE*, the DRNS shall apply the new *Min UL Channelisation Code Length* in the new configuration.]
- [FDD - If the *UL DPCH Information IE* includes the *TFCS IE*, the DRNS shall use the *TFCS IE* for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD - If the *UL DPCH Information IE* includes the *UL DPCCH Slot Format IE*, the DRNS shall apply the new Uplink *DPCCH Slot Format* to the new configuration.]
- [FDD – If the *UL DPCH Information IE* includes the *UL SIR Target IE*, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]
- [FDD – If the *UL DPCH Information IE* includes the *Puncture Limit IE*, the DRNS shall apply the value in the uplink of the new configuration .]
- [FDD - If the *UL DPCH Information IE* includes the *Diversity Mode IE*, the DRNS shall apply diversity according to the given value.]
- [FDD – If the *UL DPCH Information IE* includes an *SSDT Cell Identity Length IE* and/or an *S-Field Length IE*, the DRNS shall apply the values in the new configuration.]

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

- [FDD - If the *DL DPCH Information IE* includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Codes.]
- [FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]
- [FDD - If the *DL DPCH Information IE* includes the *TFCS IE*, the DRNS shall use the *TFCS IE* for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD – If the *DL DPCH Information IE* includes the *DL DPCH Slot Format IE*, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD – If the *DL DPCH Information IE* includes the *TFCI Signalling Mode IE*, the DRNS shall apply the new signalling mode of the TFCI.]

- [FDD – If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD – If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall , if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD – If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]
- [FDD: If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.
- [FDD: If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNC shall include the *Transmission Gap Pattern Sequence Information Response IE* to the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

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

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

- [TDD - If any of the *UL CCTrCH to Modify* IEs or *DL CCTrCH to Modify* IEs includes any of *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.] [TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of *Midamble shift and Burst Type* IE, *Time Slot* IE, *TFCI presence* IE or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code* IE was modified.]

#### [TDD – UL/DL CCTrCH Addition]

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

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

#### [TDD – UL/DL CCTrCH Deletion]

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

- **SSDT Activation/Deactivation:**[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS shall activate SSDT, if supported, using the *SSDT Cell Identity* IE in *RL Information* IE, and the *SSDT Cell Identity Length* IE in *UL DPCH Information* IE, in the new configuration.]
- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

- 

#### **DSCH Addition/Modification/Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to modify*, *DSCH to add* or *DSCH to delete* IEs, then the DRNS shall use this information DRNS to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

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

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [FDD: If the *DSCH to Modify* IE includes any *DSCH Info* IEs, then the DRNS shall treat them each as follows:]
  - [FDD: If the *DSCH Info* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DRNS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.]
  - [FDD: If the *DSCH Info* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [FDD: If the *DSCH to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [FDD: If the *DSCH to Modify* IE includes the *Transport Format Combination Set* IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]
- [TDD: If the *DSCHs to Modify* IE includes the *CCTrCH Id* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD: If the *DSCHs to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DRNS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.]
- [TDD: If the *DSCHs to Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]

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.

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH to modify*, *USCH to add* or *USCH to delete* IEs, then the DRNS shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

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

If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH to Modify* IE, then the DRNS shall treat them each as follows:

- If the *USCH to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DRNS shall use them to update the set of USCH Priority classes.

- If the *USCH to Modify* IE includes any of the *CCTrCH Id* IE, *Transport Format Set* IE, *BLER* IE or *RB Info* IE, the DRNS shall apply the parameters to the new configuration.

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.

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

#### **General:**

If the requested modifications are allowed by the DRNS, and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s) it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

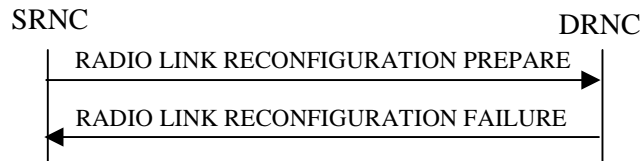
The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

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

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

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

### 8.3.4.3 Unsuccessful Operation



**Figure 2: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation**

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

- If the requested Synchronised Radio Link Reconfiguration procedure fails for one or more RLs the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD – or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

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

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

Typical cause values are:

**Radio Network Layer Causes:**

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings.
- Number of DL codes not supported;
- [TDD- DCH not Supported];
- DSCH not Supported;
- [TDD - USCH not Supported];
- [FDD - UL Spreading Factor not Supported];
- [FDD - DL Spreading Factor not Supported];
- CM not Supported.

**Protocol Causes:**

- Transaction not Allowed.

**Miscellaneous Causes:**

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

**8.3.4.4 Abnormal Conditions**

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

**TSG-RAN Working Group 3 Meeting #17  
Chicago, US, 20<sup>th</sup> – 24<sup>th</sup> November 2000**

**Document R3-003231**

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

<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</b>		<b>CR 269r1</b>		Current Version: <b>3.3.0</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 #10</b>	For approval	<input checked="" type="checkbox"/>	strategic	<input type="checkbox"/>
<small>list expected approval meeting # here ↑</small>		<small>for information</small>	<input type="checkbox"/>	<small>non-strategic</small>	<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:**    November 2000

**Subject:**    Correction for ProtocolIE-Single-Container

**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"/>
------------------	--	-----------------	--

(only one category Shall be marked With an X)

**Reason for change:**    **CR269r1:** ellipsis notation (...) in the ProtocolIE-Single-Container was removed.

The concept of ProtocolIE-Single-Container (refer to R3-002123) was agreed at R3#15 meeting. But in the current RNSAP ASN.1, this agreement is not fully implemented. Because the concept of ProtocolIE-Single-Container is not introduced to the Common Container List which is defined in chapter 9.3.7. Also ProtocolIE-ContainerList can be applied only for the IE groups whose criticality information is "EACH". In other words, ProtocolIE-ContainerList can not be applied for the IE groups whose criticality is "GLOBAL".

Therefore, this CR proposes to remove Common Container List rather than introducing ProtocolIE-Single-Container to the definition of Common Container List in order to correct miss-implementation.

Consequences if not approved:  
The agreed concept is not implemented in the latest specification.

**Clauses affected:**    9.3.3

<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:**    \_\_\_\_\_



### 9.3.3 PDU Definitions

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

```
RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }
```

```
DEFINITIONS AUTOMATIC TAGS ::=
```

```
-- Partly omitted --
```

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

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 } }
DSCH-IE-ContainerList { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList {
1, maxNoOfDSCHs, { IEsSetParam } }
USCH-IE-ContainerList { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList {
1, maxNoOfUSCHs, { IEsSetParam } }

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

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

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SRNC-ID CRITICALITY reject TYPE RNC-ID PRESENCE
mandatory } |
    { ID id-S-RNTI CRITICALITY reject TYPE S-RNTI PRESENCE
mandatory } |
    { ID id-D-RNTI CRITICALITY reject TYPE D-RNTI PRESENCE
optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime
PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-
SetupRqstFDD PRESENCE mandatory } |
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-
SetupRqstFDD PRESENCE mandatory } |
    { ID id-DCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DCH-InformationList-RL-
SetupRqstFDD PRESENCE mandatory } |
```

```

    { ID id-DSCH-Information-RL-SetupRqstFDD      CRITICALITY reject  TYPE DSCH-Information-RL-
SetupRqstFDD      PRESENCE optional              } |
    { ID id-RL-Information-RL-SetupRqstFDD      CRITICALITY notify  TYPE RL-InformationList-RL-
SetupRqstFDD      PRESENCE mandatory } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information      CRITICALITY reject  TYPE
Transmission-Gap-Pattern-Sequence-Information      PRESENCE optional } |
    { ID id-Active-Pattern-Sequence-Information      CRITICALITY reject  TYPE Active-Pattern-Sequence-
Information      PRESENCE optional },
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength      MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs            MaxNrOfUL-DPCHs            OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 -- ,
    ul-PunctureLimit          PunctureLimit,
    ul-TFCS                   TFCS,
    ul-DPCCH-SlotFormat       UL-DPCCH-SlotFormat,
    ul-SIRTarget              UL-SIR            OPTIONAL,
    diversityMode             DiversityMode,
    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,
    nrOfDLchannelisationcodes      NrOfDLchannelisationcodes,
    tFCI-SignallingMode        TFCI-SignallingMode,
    tFCI-Presence              TFCI-Presence          OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 -- ,
    multiplexingPosition       MultiplexingPosition,
    powerOffsetInformation      SEQUENCE {
        po1-ForTFCI-Bits      PowerOffset,
        po2-ForTPC-Bits      PowerOffset,
        po3-ForPilotBits     PowerOffset,
        ...
    },
    fdd-dl-TPC-DownlinkStepSize      FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease             LimitedPowerIncrease,
    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 {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList       DCH-SpecificInformationList-RL-SetupRqstFDD,
    iE-Extensions                     ProtocolExtensionContainer { {DCH-InformationItem-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

```

```

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    trCH-SrcStatisticsDescr  TrCH-SrcStatisticsDescr,
    ul-transportFormatSet    TransportFormatSet,
    dl-transportFormatSet    TransportFormatSet,
    ul-BLER                BLER,
    dl-BLER                BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority    FrameHandlingPriority,
    qE-Selector            QE-Selector,
    dRACControl            DRACControl,
    iE-Extensions          ProtocolExtensionContainer { {DCH-SpecificItem-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-Information        DSCH-Info-RL-SetupRqstFDD,
    pdSCH-RL-ID            RL-ID,
    tFCS                    TFCS,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-Information-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Info-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoOfDSCHs)) OF ProtocolIE-Single-ContainerDSCH-
IE-ContainerList { {DSCH-InformationItemIEs-RL-SetupRqstFDD} }

DSCH-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationItem-RL-SetupRqstFDD    CRITICALITY reject    TYPE DSCH-InformationItem-
RL-SetupRqstFDD    PRESENCE mandatory };
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet      TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                    BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-InformationItem-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

RL-InformationList-RL-SetupRqstFDD ::= RL-IE-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {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,
-- Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be present.
sSDT-CellID                SSdT-CellID                OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions              ProtocolExtensionContainer { {RL-InformationItem-RL-
SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SRNC-ID          CRITICALITY reject   TYPE RNC-ID
    PRESENCE mandatory } |
    { ID id-S-RNTI          CRITICALITY reject   TYPE S-RNTI
    PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject   TYPE D-RNTI
    PRESENCE optional } |
    { ID id-UL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject   TYPE UL-Physical-
Channel-Information-RL-SetupRqstTDD PRESENCE mandatory } |
    { ID id-DL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject   TYPE DL-Physical-
Channel-Information-RL-SetupRqstTDD PRESENCE mandatory } |
    { ID id-AllowedQueuingTime CRITICALITY reject   TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify   TYPE UL-CCTrCH-
InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify   TYPE DL-CCTrCH-
InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY reject   TYPE DCH-
InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-DSCH-InformationList-RL-SetupRqstTDD CRITICALITY reject   TYPE DSCH-
InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-USCH-InformationList-RL-SetupRqstTDD CRITICALITY reject   TYPE USCH-
InformationList-RL-SetupRqstTDD PRESENCE optional } |
    { ID id-RL-Information-RL-SetupRqstTDD CRITICALITY reject   TYPE RL-Information-RL-
SetupRqstTDD PRESENCE mandatory },
    ...
}

UL-Physical-Channel-Information-RL-SetupRqstTDD ::= SEQUENCE {
    maxNrTimeslots-UL          MaxNrTimeslots,
    minimumSpreadingFactor-UL MinimumSpreadingFactor,
    maxNrULPhysicalchannels    MaxNrULPhysicalchannels,
    iE-Extensions              ProtocolExtensionContainer { {UL-Physical-Channel-
InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Physical-Channel-Information-RL-SetupRqstTDD ::= SEQUENCE {
    maxNrTimeslots-DL          MaxNrTimeslots,
    minimumSpreadingFactor-DL MinimumSpreadingFactor,
    maxNrDLPhysicalchannels    MaxNrDLPhysicalchannels,
    iE-Extensions              ProtocolExtensionContainer { {DL-Physical-Channel-
InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,

```

```

}
...
DL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...
}
UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerListSEQUENCE (SIZE
(1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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 }T
...
}
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-ContainerListSEQUENCE (SIZE
(1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD}
}
DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-
InformationItem-RL-SetupRqstTDD PRESENCE mandatory }T
...
}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
cCtRch-ID CcTrCH-ID,
dl-TFCS TFCS,
tFCI-Coding TFCI-Coding,
dl-PunctureLimit PunctureLimit,
tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
cCtRch-TPCList CcTrCH-TPCList-RL-SetupRqstTDD,
iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...
}
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-
SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
cCtRch-ID CcTrCH-ID,
iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...
}
DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationItem-RL-SetupRqstTDD
DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode UL-FP-Mode,
toAWS ToAWS,

```

```

    toAWE                                ToAWE,
    dCH-SpecificInformationList          DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions                        ProtocolExtensionContainer { {DCH-InformationItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                                DCH-ID,
    ul-cCTrCH-ID                          CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID                          CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    trCH-SrcStatisticsDescr               TrCH-SrcStatisticsDescr,
    ul-transportFormatSet                 TransportFormatSet,
    dl-transportFormatSet                 TransportFormatSet,
    ul-BLER                               BLER,
    dl-BLER                               BLER,
    allocationRetentionPriority            AllocationRetentionPriority,
    frameHandlingPriority                  FrameHandlingPriority,
    qE-Selector                           QE-Selector OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions                         ProtocolExtensionContainer { {DCH-SpecificItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCH-InformationItem-
RL-SetupRqstTDD

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                                USCH-ID,
    ul-CCTrCH-ID                          CCTrCH-ID,
    trChSourceStatisticsDescriptor        TrCH-SrcStatisticsDescr,
    transportFormatSet                    TransportFormatSet,
    allocationRetentionPriority            AllocationRetentionPriority,
    schedulingPriorityIndicator            SchedulingPriorityIndicator,
    rb-Info                               RB-Info,
    iE-Extensions                         ProtocolExtensionContainer { {USCH-InformationItem-RL-
SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

RB-Info ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity

```

```

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

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

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

Timeslot-ISCPItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    dL-TimeslotISCP    DL-TimeslotISCP,
    iE-Extensions      ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

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

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    uRA-ID              URA-ID,
    sAI                 SAI,

```

```

gA-Cell                GA-Cell        OPTIONAL,
gA-AccessPointPosition GA-AccessPointPosition  OPTIONAL,
rSSI                   RSSI,
secondary-CCPCH-Info   Secondary-CCPCH-Info-RL-SetupRspFDD  OPTIONAL,
dl-CodeInformation     DL-CodeInformationList-RL-SetupRspFDD,
diversityIndication    DiversityIndication-RL-SetupRspFDD,
-- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
-- the tabular message format in subclause 9.1.
sSDT-SupportIndicator  SSdT-SupportIndicator,
maxUL-SIR              UL-SIR,
minUL-SIR              UL-SIR,
closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode  OPTIONAL,
maximumAllowedULTxPower MaximumAllowedULTxPower,
maximumDLTxPower      DL-Power,
minimumDLTxPower      DL-Power,
dSCHInformationResponse DSCH-InformationResponse-RL-SetupRspFDD  OPTIONAL,
neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

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

Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEQUENCE {
fDD-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
dl-ScramblingCode       DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
dl-TFCS                 TFCS,
secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
tFCI-Presence           TFCI-Presence  OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
multiplexingPosition     MultiplexingPosition,
sTTD-Indicator          STTD-Indicator,
fACH-PCH-InformationList FACH-PCH-InformationList-RL-SetupRspFDD,
schedulingInformation    SchedulingInformation-RL-SetupRspFDD,
iE-Extensions           ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-SetupRspFDD

FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
transportFormatSet      TransportFormatSet,
iE-Extensions           ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

```



```

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

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

DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-SetupRspFDD

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response    Transmission-Gap-Pattern-
Sequence-Information-Response    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-
SetupRspFDD }}

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

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL    NonCombiningOrFirstRL-RL-SetupRspFDD,
    ...
}

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

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

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-
SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE
    NonCombiningOrFirstRLItem-RL-SetupRspFDD    PRESENCE mandatory }
}

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

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

```

```

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

DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-
InformationResponseIE-RL-SetupRspFDD }}

DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD  CRITICALITY ignore    TYPE    DSCH-
InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory }
}

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dschInformationList    DSCHInformationList-RL-SetupRspFDD,
    pdSCHCodeMapping       PDSCHCodeMapping,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCHInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-
SetupRspFDD

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

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

PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD

PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator  SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths        MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
    iE-Extensions                ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
    { 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,
    sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

```

```

    protocolExtensions          ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-
Extensions}}                  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-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
PRESENCE optional },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower     DL-Power,
    minimumDLTxPower     DL-Power,
    timingAdjustmentRequired TimingAdjustmentRequired,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
    dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp
OPTIONAL,
    -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
    iE-Extensions          ProtocolExtensionContainer { {RL-InformationResponse-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-
SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    iSCP                  UL-TimeslotISCP,
    iE-Extensions        ProtocolExtensionContainer { { UL-InterferenceItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-
CCTrCHInformationListIEs-RL-SetupRspTDD}}

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

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

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {

```

```

    cCTrCH-ID          CCTrCH-ID,
    ul-DPCH-InformationList-RL-SetupRspTDD  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-
InformationListIEs-RL-SetupRspTDD} }

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

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tDD-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-SetupRspTDD      UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions         ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-
InformationItem-RL-SetupRspTDD

UL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    midambleShiftAndBurstType      MidambleShiftAndBurstType,
    tFCI-Presence         TFCI-Presence,
    uL-Code-InformationList-RL-SetupRspTDD      UL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions         ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationItem-RL-SetupRspTDD

UL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID              DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions         ProtocolExtensionContainer { {UL-Code-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {

```

```

    cCTrCH-ID          CCTrCH-ID,
    dl-DPCH-InformationList-RL-SetupRspTDD OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tDD-DPCHOffset            TDD-DPCHOffset,
    dL-Timeslot-InformationList-RL-SetupRspTDD          UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-
InformationItem-RL-SetupRspTDD

DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    dL-Code-InformationList-RL-SetupRspTDD          DL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationItem-RL-SetupRspTDD

DL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                    DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions                ProtocolExtensionContainer { {DL-Code-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { 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 ::= {
    ...
}

DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-
SetupRspTDD}}

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

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

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID          DSCH-ID,
    priorityIndicator PriorityIndicator-RL-SetupRspTDD,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions    ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs}
} OPTIONAL,
    ...
}

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

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-
SetupRspTDD}}

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

USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-
RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID          USCH-ID,
    bindingID        BindingID,
    transportLayerAddress TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions    ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

```

```

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

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

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

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

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

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-SetupFailureFDD          CRITICALITY ignore   TYPE GeneralCauseItem-
RL-SetupFailureFDD          PRESENCE mandatory }
}

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

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

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

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID 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-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {UnsuccessfulRL-InformationResponse-RL-
SetupFailureFDD-IEs} }

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore    TYPE
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD      PRESENCE mandatory }7
    ...
}

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-ContainerListSEQUENCE (SIZE
(0..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {SuccessfulRL-InformationResponse-RL-
SetupFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore    TYPE
SuccessfulRL-InformationResponse-RL-SetupFailureFDD      PRESENCE mandatory }7
    ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    rSSI                 RSSI,
    dl-CodeInformation   DL-CodeInformationList-RL-SetupFailureFDD,
    diversityIndication  DiversityIndication-RL-SetupFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSDT-SupportIndicator,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower     DL-Power,
    minimumDLTxPower     DL-Power,
    dSCH-InformationResponse-RL-SetupFailureFDD    DSCH-InformationResponseList-RL-SetupFailureFDD
OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD
OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {SuccessfulRL-
InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD      CRITICALITY ignore    TYPE DL-
CodeInformationListIE-RL-SetupFailureFDD      PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-SetupFailureFDD

```

```

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber      FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-
Sequence-Information-Response          OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
    combining              Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL      NonCombiningOrFirstRL-RL-SetupFailureFDD,
    ...
}

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

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { 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 ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-
RL-SetupFailureFDD }}

NonCombiningOrFirstRLIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD      CRITICALITY ignore      TYPE
NonCombiningOrFirstRLItem-RL-SetupFailureFDD      PRESENCE mandatory }
}

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

NonCombiningOrFirstRLItem-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 ::= {
    ...
}

DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-
InformationResponseListIEs-RL-SetupFailureFDD }}

DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD    CRITICALITY ignore    TYPE DSCH-
InformationResponseListIE-RL-SetupFailureFDD                    PRESENCE mandatory }
}

DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF
DSCHInformationItem-RL-SetupFailureFDD

DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupFailureFDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

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

Neighbouring-CellInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList  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,
    sTTD-SupportIndicator STTD-SupportIndicator    OPTIONAL,
    closedLoopModel1-SupportIndicator  ClosedLoopModel1-SupportIndicator    OPTIONAL,
    closedLoopMode2-SupportIndicator  ClosedLoopMode2-SupportIndicator    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

RadioLinkSetupFailureTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-SetupFailureTDD  CRITICALITY ignore  TYPE CauseLevel-RL-SetupFailureTDD
    PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics
    PRESENCE optional   },
    ...
}

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

GeneralCauseList-RL-SetupFailureTDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
SetupFailureTDD }}

GeneralCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureTDD  CRITICALITY ignore  TYPE GeneralCauseItem-RL-
SetupFailureTDD  PRESENCE mandatory }
}

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

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

RLSpecificCauseList-RL-SetupFailureTDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
SetupFailureTDD }}

RLSpecificCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-RLSpecificCauseItem-RL-SetupFailureTDD          CRITICALITY ignore  TYPE
RLSpecificCauseItem-RL-SetupFailureTDD          PRESENCE          mandatory  }
}

RLSpecificCauseItem-RL-SetupFailureTDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD  Unsuccessful-RL-InformationRespItem-RL-
SetupFailureTDD,
    iE-Extensions                                           ProtocolExtensionContainer { {
RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} }          OPTIONAL,
    ...
}

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

Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD ::= ProtocolIE-Single-Container {
{Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD} }

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

UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD ::= SEQUENCE {
    rL-ID              RL-ID,
    cause              Cause,
    iE-Extensions     ProtocolExtensionContainer { {UnsuccessfulRL-
InformationResponse-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

RL-InformationList-RL-AdditionRqstFDD ::= RL-IE-ContainerList1-1SEQUENCE (SIZE
(1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Information-RL-AdditionRqstFDD-IEs} }

RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-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,
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,
    timeSlot-ISCPList-RL-AdditionRqstTDD TimeSlot-ISCPList-RL-AdditionRqstTDD OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

Timeslot-ISCPItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    dL-TimeslotISCP      DL-TimeslotISCP,
    iE-Extensions        ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-AdditionRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

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

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    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-ContainerList1SEQUENCE (SIZE
(1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-
AdditionRspFDD} }

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

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    rSSI                 RSSI,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation   DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSdT-SupportIndicator,
    minUL-SIR            UL-SIR,
    maxUL-SIR            UL-SIR,
    closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower    DL-Power,
    minimumDLTxPower     DL-Power,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset    FDD-S-CCPCH-Offset,
    dl-ScramblingCode     DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                TFCS,
    secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    tFCI-Presence          TFCI-Presence    OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
    multiplexingPosition   MultiplexingPosition,
    sTTD-Indicator         STTD-Indicator,
    fACH-PCH-InformationList FACH-PCH-InformationList-RL-AdditionRspFDD,
    schedulingInformation  SchedulingInformation-RL-AdditionRspFDD,
    iE-Extensions          ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-AdditionRspFDD

```

```

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

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

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

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

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

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

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

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-AdditionRspFDD }}

DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-AdditionRspFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-AdditionRspFDD

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-
AdditionRspFDD }}

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

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

Combining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionRspFDD }}

```



```

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

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

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

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container { { NonCombiningIE-RL-AdditionRspFDD
} }

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningItem-RL-AdditionRspFDD CRITICALITY ignore TYPE NonCombiningItem-RL-
AdditionRspFDD PRESENCE mandatory }
}

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

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

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  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
ProtocolIE-Single-Container { { Neighbouring-CellInformationItemIE-RL-AdditionRsp } }

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

Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-
CellInformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
  ...
}

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

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

```

```

Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu        UARFCN,
    uARFCNforNd        UARFCN,
    frameOffset        FrameOffset        OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power PrimaryCPICH-Power    OPTIONAL,
    cellIndividualOffset CellIndividualOffset    OPTIONAL,
    txDiversityIndicator TxDiversityIndicator,
    sTTD-SupportIndicator STTD-SupportIndicator    OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator    OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator    OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,

```

```

gA-AccessPointPosition          GA-AccessPointPosition  OPTIONAL,
ul-InteferencePerTimeslot       UL-InterferenceList-RL-AdditionRspTDD,
timingAdjustmentRequired        TimingAdjustmentRequired,
ul-CCTrCHInformation            UL-CCTrCHInformationList-RL-AdditionRspTDD  OPTIONAL,
dl-CCTrCHInformation            DL-CCTrCHInformationList-RL-AdditionRspTDD  OPTIONAL,
diversityIndication             DiversityIndication-RL-AdditionRspTDD,
-- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
-- the tabular message format in subclause 9.1.
minUL-SIR                       UL-SIR,
maxUL-SIR                       UL-SIR,
maximumAllowedULTxPower         MaximumAllowedULTxPower,
maximumDLTxPower                DL-Power,
minimumDLTxPower                DL-Power,
dSCH-InformationResponse         DSCH-InformationResponse-RL-AdditionRspTDD  OPTIONAL,
uSCH-InformationResponse         USCH-InformationResponse-RL-AdditionRspTDD  OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp
OPTIONAL,
iE-Extensions                    ProtocolExtensionContainer { {RL-InformationResponse-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

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

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-
RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
timeslot                        TimeSlot,
iSCP                            UL-TimeslotISCP,
iE-Extensions                    ProtocolExtensionContainer { { UL-InterferenceItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

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

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-
CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE UL-
CCTrCHInformationListIE-RL-AdditionRspTDD  PRESENCE mandatory }
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-
CCTrCHInformationItem-RL-AdditionRspTDD

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

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

UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-
InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE UL-DPCH-
InformationItem-RL-AdditionRspTDD  PRESENCE mandatory }
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
repetitionPeriod                RepetitionPeriod,
repetitionLength                RepetitionLength,
tDD-DPCHOffset                 TDD-DPCHOffset,

```

```

    uL-Timeslot-InformationList-RL-AdditionRspTDD          UL-Timeslot-InformationList-RL-
AdditionRspTDD,
    iE-Extensions                                         ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF UL-Timeslot-
InformationItem-RL-AdditionRspTDD

UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                Timeslot,
    midambleShiftAndBurstType      MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRspTDD          UL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationItem-RL-AdditionRspTDD

UL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions              ProtocolExtensionContainer { {UL-Code-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-
CCTrCHInformationListIEs-RL-AdditionRspTDD} }

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

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

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

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

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

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

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tDD-DPCHOffset            TDD-DPCHOffset,

```

```

    DL-Timeslot-InformationList-RL-AdditionRspTDD          UL-Timeslot-InformationList-RL-
AdditionRspTDD,
    iE-Extensions                                         ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-
InformationItem-RL-AdditionRspTDD

DL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                Timeslot,
    midambleShiftAndBurstType      MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    dL-Code-InformationList-RL-AdditionRspTDD          DL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationItem-RL-AdditionRspTDD

DL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    iE-Extensions              ProtocolExtensionContainer { {DL-Code-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Single-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-Single-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-Single-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 ::= {
  ...
}
DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-AdditionRspTDD
DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
  AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-
InformationListIEs-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DSCH-
  InformationListIE-RL-AdditionRspTDD PRESENCE mandatory }
}
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF
DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  transportFormatManagement TransportFormatManagement,
  priorityIndicator PriorityIndicator-RL-AdditionRspTDD,
  diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
  -- diversityIndication present, if CHOICE = nonCombining
  iE-Extensions ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-
  ExtIEs} } OPTIONAL,
  ...
}
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
AdditionRspTDD
PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
  iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
  AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-
sh-SDU-Length
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-
ExtIEs} } OPTIONAL,
    ...
}
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-
InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD      CRITICALITY ignore   TYPE USCH-
InformationListIE-RL-AdditionRspTDD      PRESENCE mandatory }
}

USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF
USCHInformationItem-RL-AdditionRspTDD

USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversityIndication     DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-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-CauseLevel-RL-AdditionFailureFDD                CRITICALITY ignore
    TYPE CauseLevel-RL-AdditionFailureFDD                PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    ...
}

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

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD                CRITICALITY ignore
    TYPE GeneralCauseItem-RL-AdditionFailureFDD                PRESENCE mandatory }
}

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

```

```

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

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { 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-ContainerList1-1SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD-IEs} }

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore TYPE
    UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD    PRESENCE mandatory }7
    ...
}

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-ContainerList0-2SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-Single-Container { {SuccessfulRL-InformationResponse-RL-
AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore TYPE
    SuccessfulRL-InformationResponse-RL-AdditionFailureFDD    PRESENCE mandatory }7
    ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID RL-ID,
    rL-Set-ID RL-Set-ID,
    uRA-ID URA-ID,
    sAI SAI,
    rSSI RSSI,
    dl-CodeInformation DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
-- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSdT-SupportIndicator,
    minUL-SIR UL-SIR,
    maxUL-SIR UL-SIR,
    closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower DL-Power,
    minimumDLTxPower DL-Power,
}

```



```

    neighbouring-CellInformationList    Neighbouring-CellInformationList-RL-AdditionFailureFDD
OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-AdditionFailureFDD }}

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD    CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-AdditionFailureFDD    PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response        Transmission-Gap-Pattern-
Sequence-Information-Response    OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-
RL-AdditionFailureFDD }}

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

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

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionFailureFDD
}}

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

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

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

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningIE-RL-
AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-
AdditionFailureFDD    PRESENCE mandatory }
}

NonCombiningItem-RL-AdditionFailureFDD ::= 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 ProtocolIE-Single-Container {{ Neighbouring-CellInformationItemIE-
RL-AdditionFailureFDD }}

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

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionFailureFDD
OPTIONAL,
    per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionFailureFDD
OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {Neighbouring-
CellInformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu         UARFCN,
    uARFCNforNd         UARFCN,
    frameOffset         FrameOffset    OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power  PrimaryCPICH-Power    OPTIONAL,
    cellIndividualOffset CellIndividualOffset    OPTIONAL,
    txDiversityIndicator TxDiversityIndicator,
    sTTD-SupportIndicator STTD-SupportIndicator    OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator    OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

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

```

```

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

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

CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-AdditionFailureTDD,
    rLSpecificCause      RLSpecificCauseList-RL-AdditionFailureTDD,
    ...
}

GeneralCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
AdditionFailureTDD }}

GeneralCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureTDD    CRITICALITY ignore TYPE GeneralCauseItem-
RL-AdditionFailureTDD PRESENCE mandatory }
}

GeneralCauseItem-RL-AdditionFailureTDD ::= SEQUENCE {
    cause                Cause,
    iE-Extensions        ProtocolExtensionContainer { { GeneralCauseItem-RL-
AdditionFailureTDD-ExtIEs } }
    OPTIONAL,
    ...
}

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

RLSpecificCauseList-RL-AdditionFailureTDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
AdditionFailureTDD }}

```

```

RLSpecificCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-AdditionFailureTDD      CRITICALITY ignore  TYPE
RLSpecificCauseItem-RL-AdditionFailureTDD      PRESENCE      mandatory    }
}

RLSpecificCauseItem-RL-AdditionFailureTDD ::= 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-Single-Container {
{Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD} }

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

UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  cause          Cause,
  iE-Extensions ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-
AdditionFailureTDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

-- *****
--
-- RADIO LINK DELETION REQUEST
--
-- *****

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

RadioLinkDeletionRequest-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationList-RL-DeletionRqst  CRITICALITY notify  TYPE RL-InformationList-RL-
DeletionRqst      PRESENCE mandatory },
  ...
}

RL-InformationList-RL-DeletionRqst ::= RL-IE-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {RL-Information-RL-DeletionRqst-IEs} }

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

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

RL-Information-RL-DeletionRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK DELETION RESPONSE
--
-- *****

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

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

RadioLinkDeletionResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

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

RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime             CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD
    Information-RL-ReconfPrepFDD           CRITICALITY reject  TYPE UL-DPCH-
    PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD
    Information-RL-ReconfPrepFDD           CRITICALITY reject  TYPE DL-DPCH-
    PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DCH-ModifyList-RL-
    PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DCH-AddList-RL-
    PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DCH-DeleteList-RL-
    PRESENCE optional } |
    { ID id-DSCH-Modify-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DSCH-Modify-RL-
    PRESENCE optional } |
    { ID id-DSCH-Add-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DSCH-Add-RL-ReconfPrepFDD
    PRESENCE optional } |
    { ID id-DSCH-Delete-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE DSCH-Delete-RL-
    PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD
    ReconfPrepFDD                         CRITICALITY reject  TYPE RL-InformationList-RL-
    PRESENCE optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information
    Gap-Pattern-Sequence-Information      CRITICALITY reject  TYPE Transmission-
    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-DPCH-SlotFormat          UL-DPCH-SlotFormat          OPTIONAL,
    diversityMode                DiversityMode                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,
    nrOfDLchannelisationcodes     NrOfDLchannelisationcodes  OPTIONAL,
    tFCI-SignallingMode           TFCI-SignallingMode        OPTIONAL,
    tFCI-Presence                 TFCI-Presence              OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 --,
    multiplexingPosition          MultiplexingPosition        OPTIONAL,
    limitedPowerIncrease          LimitedPowerIncrease        OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DL-DPCH-Information-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-FP-Mode                    UL-FP-Mode                OPTIONAL,
    toAWS                          ToAWS                    OPTIONAL,
    toAWE                          ToAWE                    OPTIONAL,
    dCH-SpecificInformationList    DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
    iE-Extensions                ProtocolExtensionContainer { {DCH-ModifyItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfPrepFDD

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                        DCH-ID,
    ul-TransportformatSet         TransportFormatSet          OPTIONAL,
    dl-TransportformatSet         TransportFormatSet          OPTIONAL,
    allocationRetentionPriority    AllocationRetentionPriority  OPTIONAL,
    frameHandlingPriority          FrameHandlingPriority        OPTIONAL,
    dRACControl                   DRACControl                 OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode                    UL-FP-Mode,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
    dCH-SpecificInformationList    DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
    iE-Extensions                ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,

```

```

}
...
DCH-AddItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...
DCH-AddSpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfPrepFDD

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    trCH-SrcStatisticsDescr    TrCH-SrcStatisticsDescr,
    ul-TransportformatSet     TransportFormatSet,
    dl-TransportformatSet     TransportFormatSet,
    ul-BLER                 BLER,
    dl-BLER                 BLER,
    allocationRetentionPriority    AllocationRetentionPriority,
    frameHandlingPriority      FrameHandlingPriority,
    qE-Selector              QE-Selector,
    dRACControl              DRACControl,
    iE-Extensions            ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-DeleteList-RL-ReconfPrepFDD                ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfPrepFDD

DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions            ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information        DSCH-ModifyInfo-RL-ReconfPrepFDD    OPTIONAL,
    pdSCH-RL-ID            RL-ID                                OPTIONAL,
    tFCS                    TFCS                                OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyInformationItem-
RL-ReconfPrepFDD

DSCH-ModifyInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor    TrCH-SrcStatisticsDescr    OPTIONAL,
    transportFormatSet         TransportFormatSet                OPTIONAL,
    allocationRetentionPriority    AllocationRetentionPriority    OPTIONAL,
    schedulingPriorityIndicator    SchedulingPriorityIndicator    OPTIONAL,
    bLER                       BLER                            OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information        DSCH-AddInfo-RL-ReconfPrepFDD,

```

```

pdSCH-RL-ID          RL-ID,
tFCS                 TFCS,
iE-Extensions        ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
...
}

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

DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-AddInformationItem-RL-
ReconfPrepFDD

DSCH-AddInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
dSCH-ID              DSCH-ID,
trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
transportFormatSet   TransportFormatSet,
allocationRetentionPriority AllocationRetentionPriority,
schedulingPriorityIndicator SchedulingPriorityIndicator,
bLER                 BLER,
iE-Extensions        ProtocolExtensionContainer { {DSCH-AddInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

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

DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
dSCH-Information     DSCH-Info-Delete-RL-ReconfPrepFDD,
iE-Extensions        ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
...
}

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

DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-
DeleteInformationItem-RL-REconfPrepFDD

DSCH-DeleteInformationItem-RL-REconfPrepFDD ::= SEQUENCE {
dSCH-ID              DSCH-ID,
iE-Extensions        ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

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

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerListSEQUENCE (SIZE (0..maxNrOfRLs))
OF ProtocolIE-Single-Container { {RL-Information-RL-ReconfPrepFDD-IEs} }

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

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
rL-ID              RL-ID,
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' --,
transmitDiversityIndicator TransmitDiversityIndicator    OPTIONAL,
-- This IE is present if Diversity Mode IE in UL DPCH Information group is present, unless it is
equal to "none"
iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
...
}

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

```



```

}
...
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

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

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 } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepTDD        CRITICALITY reject  TYPE DSCH-ModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepTDD           CRITICALITY reject  TYPE DSCH-AddList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepTDD        CRITICALITY reject  TYPE DSCH-DeleteList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-ModifyList-RL-ReconfPrepTDD        CRITICALITY reject  TYPE USCH-ModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-AddList-RL-ReconfPrepTDD           CRITICALITY reject  TYPE USCH-AddList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-DeleteList-RL-ReconfPrepTDD        CRITICALITY reject  TYPE USCH-DeleteList-RL-
ReconfPrepTDD PRESENCE optional },
    ...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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 {
    cCtTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    tFCI-Coding               TFCI-Coding,
    punctureLimit             PunctureLimit,
    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-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-
IEs} }

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD PRESENCE mandatory }7
...
}

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-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-
IEs} }

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD PRESENCE mandatory }7
...
}

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-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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 }7
...
}

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

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

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-
ReconfPrepTDD

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
cCTrCH-ID CCTrCH-ID,

```

```

        iE-Extensions                ProtocolExtensionContainer { { CcTrCH-TPCAddItem-RL-
ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

CcTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CcTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CcTrCH-IE-ContainerListSEQUENCE (SIZE
(0..maxNrOfCcTrCHs)) OF ProtocolIE-Single-Container { {DL-CcTrCH-ModifyInformation-RL-ReconfPrepTDD-
IEs} }

DL-CcTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CcTrCH-InformationModifyItem-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CcTrCH-
InformationModifyItem-RL-ReconfPrepTDD    PRESENCE mandatory }7
    ...
}

DL-CcTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRCH-ID                CcTrCH-ID,
    tFCS                      TFCS    OPTIONAL,
    tFCI-Coding               TFCI-Coding    OPTIONAL,
    punctureLimit             PunctureLimit    OPTIONAL,
    cCtRCH-TPCList            CcTrCH-TPCModifyList-RL-ReconfPrepTDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CcTrCH-InformationModifyItem-
RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CcTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

CcTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCcTrCHs)) OF CcTrCH-
TPCModifyItem-RL-ReconfPrepTDD

CcTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRCH-ID                CcTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { { CcTrCH-TPCModifyItem-RL-
ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

CcTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CcTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CcTrCH-IE-ContainerListSEQUENCE (SIZE
(0..maxNrOfCcTrCHs)) OF ProtocolIE-Single-Container { {DL-CcTrCH-DeleteInformation-RL-ReconfPrepTDD-
IEs} }

DL-CcTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CcTrCH-InformationDeleteItem-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CcTrCH-
InformationDeleteItem-RL-ReconfPrepTDD    PRESENCE mandatory }7
    ...
}

DL-CcTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRCH-ID                CcTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { {DL-CcTrCH-InformationDeleteItem-
RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CcTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode                UL-FP-Mode    OPTIONAL,
    toAWS                     ToAWS    OPTIONAL,
    toAWE                     ToAWE    OPTIONAL,
    dCH-SpecificInformationList    DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    ul-CCTrCH-ID           CCTrCH-ID          OPTIONAL,
    dl-CCTrCH-ID           CCTrCH-ID          OPTIONAL,
    ul-TransportformatSet  TransportFormatSet OPTIONAL,
    dl-TransportformatSet  TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    dCH-SpecificInformationList  DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions                ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfPrepTDD

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    ul-CCTrCH-ID           CCTrCH-ID,
    dl-CCTrCH-ID           CCTrCH-ID,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet  TransportFormatSet,
    dl-TransportformatSet  TransportFormatSet,
    ul-BLER                BLER,
    dl-BLER                BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    qE-Selector            QE-Selector          OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions          ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,

```

```

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

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

DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-
ReconfPrepTDD

DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CTrCH-ID                                OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet                    OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority        OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator        OPTIONAL,
    bLER                   BLER                                    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-AddItem-RL-ReconfPrepTDD

DSCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-
ReconfPrepTDD

DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-
ReconfPrepTDD

USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
-- R#-1972,CR161r2
    uSCH-ID                USCH-ID,
    ul-ccTrCHID            CTrCH-ID                                OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet                    OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority        OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator        OPTIONAL,
    bLER                   BLER                                    OPTIONAL,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

```

```

}

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

USCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-AddItem-RL-ReconfPrepTDD

USCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    ul-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-
ReconfPrepTDD

USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

RL-InformationResponseList-RL-ReconfReadyFDD ::= RL-IE-ContainerListSEQUENCE (SIZE
(0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-ReconfReadyFDD-IEs} }

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

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

```

```

min-UL-SIR                UL-SIR                OPTIONAL,
maximumDLTxPower          DL-Power          OPTIONAL,
minimumDLTxPower          DL-Power          OPTIONAL,
secondary-CCPCH-Info      Secondary-CCPCH-Info-RL-ReconfReadyFDD  OPTIONAL,
dl-CodeInformationList    DL-CodeInformationList-RL-ReconfReadyFDD  OPTIONAL,
dCHsInformationResponseList  DCH-InformationResponseList-RL-ReconfReadyFDD  OPTIONAL,
dSCHToBeAddedOrModified    DSCHToBeAddedOrModified-RL-ReconfReadyFDD  OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

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

Secondary-CCPCH-Info-RL-ReconfReadyFDD ::= SEQUENCE {
fDD-S-CCPCH-Offset        FDD-S-CCPCH-Offset,
dl-ScramblingCode         DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
dl-TFCS                   TFCS,
secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
tFCI-Presence             TFCI-Presence  OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
multiplexingPosition      MultiplexingPosition,
sTTD-Indicator            STTD-Indicator,
fACH-PCH-InformationList  FACH-PCH-InformationList-RL-ReconfReadyFDD,
schedulingInformation     SchedulingInformation-RL-ReconfReadyFDD,
iE-Extensions             ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-ReconfReadyFDD

FACH-PCH-InformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
transportFormatSet        TransportFormatSet,
iE-Extensions             ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

```

```

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

DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-ReconfReadyFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-ReconfReadyFDD

DL-CodeInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
  dl-ScramblingCode DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmission-Gap-Pattern-Sequence-Information-Response Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-CodeInformationItem-RL-
ReconfReadyFDD-ExtIEs } } OPTIONAL,
  ...
}

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

DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container { {DCH-
InformationResponseListIEs-RL-ReconfReadyFDD} }

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

DCH-InformationResponseListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-ReconfReadyFDD

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

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

DSCHToBeAddedOrModified-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {
{DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE
DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD PRESENCE mandatory }
}

DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {
  dschInformation DSCHInformation-RL-ReconfReadyFDD,
  pdSCHCodeMapping PDSCHCodeMapping,
  iE-Extensions ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-
ExtIEs} } OPTIONAL,
  ...
}

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

DSCHInformation-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-
ReconfReadyFDD

DSCHInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  priorityIndicator PriorityIndicator-RL-ReconfReadyFDD,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,

```



```

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

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

PriorityIndicator-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
ReconfReadyFDD

PriorityIndicatorItem-RL-ReconfReadyFDD ::= SEQUENCE {
    schedulingPriorityIndicator      SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths           MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD,
    iE-Extensions                  ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkReconfigurationReadyTDD-
IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-
Extensions}}
    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,
    maximumDLTxPower      DL-Power      OPTIONAL,
    minimumDLTxPower      DL-Power      OPTIONAL,
    ul-CCTrCH-Information UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
    dSCHsToBeAddedOrModified    DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    uSCHsToBeAddedOrModified    USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {RL-InformationResponse-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-
CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE UL-
CCTrCHInformationListIE-RL-ReconfReadyTDD  PRESENCE 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-Single-Container {{UL-DPCH-
InformationAddListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE UL-DPCH-
InformationAddListIE-RL-ReconfReadyTDD  PRESENCE mandatory }
}

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tDD-DPCHOffset          TDD-DPCHOffset,
    uL-Timeslot-InformationAddList-RL-ReconfReadyTDD        UL-Timeslot-InformationAddList-RL-
ReconfReadyTDD,
    iE-Extensions            ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-
InformationAddItem-RL-ReconfReadyTDD

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType        MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-RL-ReconfReadyTDD        UL-Code-InformationAddList-RL-
ReconfReadyTDD,
    iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationAddItem-RL-ReconfReadyTDD

UL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationModifyListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE UL-DPCH-
InformationModifyListIE-RL-ReconfReadyTDD  PRESENCE mandatory }
}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength          RepetitionLength          OPTIONAL,
  tDD-DPCHOffset           TDD-DPCHOffset           OPTIONAL,
  uL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  UL-Timeslot-InformationModifyList-
RL-ReconfReadyTDD  OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {UL-DPCH-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-
Timeslot-InformationModifyItem-RL-ReconfReadyTDD

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  timeSlot                  TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType          OPTIONAL,
  tFCI-Presence             TFCI-Presence          OPTIONAL,
  uL-Code-InformationModifyList-RL-ReconfReadyTDD  UL-Code-InformationModifyList-RL-
ReconfReadyTDD  OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-
RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationModifyItem-RL-ReconfReadyTDD

UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID                   DPCH-ID,
  tDD-ChannelisationCode    TDD-ChannelisationCode,
  iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationDeleteListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { 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-Single-Container {{DL-
CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

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

DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationItem-RL-ReconfReadyTDD

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCTrCH-ID CTrCH-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-Single-Container {{DL-DPCH-
InformationAddListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-
InformationAddListIE-RL-ReconfReadyTDD PRESENCE mandatory }
}

DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-InformationAddList-RL-ReconfReadyTDD DL-Timeslot-InformationAddList-RL-
ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-
Timeslot-InformationAddItem-RL-ReconfReadyTDD

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  dL-Code-InformationAddList-RL-ReconfReadyTDD DL-Code-InformationAddList-RL-
ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-
InformationAddItem-RL-ReconfReadyTDD

DL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,

```

```

    iE-Extensions                ProtocolExtensionContainer { {DL-Code-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-
InformationModifyListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE DL-DPCH-
InformationModifyListIE-RL-ReconfReadyTDD        PRESENCE mandatory }
}

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod                RepetitionPeriod                OPTIONAL,
    repetitionLength                RepetitionLength                OPTIONAL,
    tDD-DPCHOffset                  TDD-DPCHOffset                OPTIONAL,
    dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD            DL-Timeslot-InformationModifyList-
RL-ReconfReadyTDD                OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-
Timeslot-InformationModifyItem-RL-ReconfReadyTDD

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                        TimeSlot,
    midambleShiftAndBurstType        MidambleShiftAndBurstType        OPTIONAL,
    tFCI-Presence                    TFCI-Presence                    OPTIONAL,
    dL-Code-InformationModifyList-RL-ReconfReadyTDD                DL-Code-InformationModifyList-RL-
ReconfReadyTDD                OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-
RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationModifyItem-RL-ReconfReadyTDD

DL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                        DPCH-ID,
    tDD-ChannelisationCode          TDD-ChannelisationCode,
    iE-Extensions                ProtocolExtensionContainer { {DL-Code-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-
InformationDeleteListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { 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-InformationResponseList-RL-ReconfReadyTDD          ::= ProtocolIE-Single-Container { {DCH-
InformationResponseListIEs-RL-ReconfReadyTDD} }

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

DCH-InformationResponseListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-ReconfReadyTDD

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

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

DSCHToBeAddedOrModified-RL-ReconfReadyTDD          ::= ProtocolIE-Single-Container {
{DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE
DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD    PRESENCE mandatory }
}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    transportFormatManagement  TransportFormatManagement,
    priorityIndicator        PriorityIndicator-RL-ReconfReadyTDD,
    bindingID                BindingID,
    transportLayerAddress    TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-ReconfReadyTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
ReconfReadyTDD

PriorityIndicatorItem-RL-ReconfReadyTDD ::= SEQUENCE {
    schedulingPriorityIndicator  SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths        MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD,
    iE-Extensions                ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

```

```

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {
{USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE
USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory } }
}

USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF
USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  uSCH-ID USCH-ID,
  transportFormatManagement TransportFormatManagement,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

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

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

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

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

-- *****
--
-- RADIO LINK RECONFIGURATION FAILURE
--
-- *****

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

RadioLinkReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-CauseLevel-RL-ReconfFailure CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure
PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
PRESENCE optional },
  ...
}

CauseLevel-RL-ReconfFailure ::= CHOICE {

```

```

    generalCause      GeneralCauseList-RL-ReconfFailure,
    rLSpecificCause   RLSpecificCauseList-RL-ReconfFailure,
    ...
}

GeneralCauseList-RL-ReconfFailure ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-ReconfFailure
}}

GeneralCauseIE-RL-ReconfFailure RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-ReconfFailure      CRITICALITY ignore
      TYPE GeneralCauseItem-RL-ReconfFailure      PRESENCE mandatory }
}

GeneralCauseItem-RL-ReconfFailure ::= SEQUENCE {
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-
ReconfFailure-ExtIEs } } OPTIONAL,
    ...
}

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

RLSpecificCauseList-RL-ReconfFailure ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
ReconfFailure }}

RLSpecificCauseIE-RL-ReconfFailure RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-ReconfFailure      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-ContainerListSEQUENCE (SIZE
(0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-ReconfigurationFailure-RL-ReconfFailure-IEs} }

RL-ReconfigurationFailure-RL-ReconfFailure-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-ReconfigurationFailure-RL-ReconfFail CRITICALITY ignore TYPE RL-
ReconfigurationFailure-RL-ReconfFail PRESENCE mandatory }7
    ...
}

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

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

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

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

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

```



```

    protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-
Extensions}}                  OPTIONAL,
    ...
}

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

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

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

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

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

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {UL-DPCH-Information-RL-
ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS          OPTIONAL,
    tFCI-SignallingMode TFCI-SignallingMode OPTIONAL,
    limitedPowerIncrease LimitedPowerIncrease OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DL-DPCH-Information-RL-
ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode,
    toAWS              ToAWS,
    toAWE              ToAWE,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfRqstFDD,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstFDD-
ExtIes} } OPTIONAL,
    ...
}

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

DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfRqstFDD

DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    ul-TransportformatSet   TransportFormatSet OPTIONAL,
    dl-TransportformatSet   TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority OPTIONAL,
    dRACControl             DRACControl OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
ReconfRqstFDD-ExtIes} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIes RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    dCH-SpecificInformationList   DCH-AddSpecificInformationList-RL-ReconfRqstFDD,
    iE-Extensions                ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstFDD-
ExtIes} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfRqstFDD-ExtIes RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfRqstFDD

DCH-AddSpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet   TransportFormatSet,
    dl-TransportformatSet   TransportFormatSet,
    ul-BLER                 BLER,
    dl-BLER                 BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority   FrameHandlingPriority,
    qE-Selector             QE-Selector,
    dRACControl             DRACControl,
    iE-Extensions          ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
ReconfRqstFDD-ExtIes} } OPTIONAL,
    ...
}

DCH-AddSpecificItem-RL-ReconfRqstFDD-ExtIes RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-DeleteList-RL-ReconfRqstFDD          ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfRqstFDD

DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-
ExtIes} } OPTIONAL,
    ...
}

```

```

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

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

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

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

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-AllowedQueuingTime      CRITICALITY reject  TYPE AllowedQueuingTime
  PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD  PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD  PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationModifyList-RL-ReconfRqstTDD  PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationDeleteList-RL-ReconfRqstTDD  PRESENCE optional } |
  { ID id-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-ContainerList0SEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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-ContainerList0SEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-InformationModifyList-RL-
ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE DL-CCTrCH-
InformationModifyItem-RL-ReconfRqstTDD    PRESENCE mandatory }7
    ...
}

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-ContainerListSEQUENCE (SIZE
(0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {DL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE DL-CCTrCH-
InformationDeleteItem-RL-ReconfRqstTDD    PRESENCE mandatory }7
    ...
}

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

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

DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfRqstTDD

DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    ul-CCTrCH-ID              CCTrCH-ID    OPTIONAL,
    dl-CCTrCH-ID              CCTrCH-ID    OPTIONAL,
    ul-TransportformatSet     TransportFormatSet    OPTIONAL,
    dl-TransportformatSet     TransportFormatSet    OPTIONAL,

```

```

    allocationRetentionPriority      AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority            FrameHandlingPriority   OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    dCH-SpecificInformationList        DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
    iE-Extensions                      ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfRqstTDD

DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                             DCH-ID,
    trCH-SrcStatisticsDescr             TrCH-SrcStatisticsDescr,
    ul-CCTrCH-ID                       CCTrCH-ID,
    dl-CCTrCH-ID                       CCTrCH-ID,
    ul-TransportformatSet               TransportFormatSet,
    dl-TransportformatSet               TransportFormatSet,
    ul-BLER                             BLER,
    dl-BLER                             BLER,
    allocationRetentionPriority          AllocationRetentionPriority,
    frameHandlingPriority                FrameHandlingPriority,
    qE-Selector                         QE-Selector           OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions                       ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-DeleteList-RL-ReconfRqstTDD          ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfRqstTDD

DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID                             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-ContainerListSEQUENCE (SIZE (0..maxNrOfRLs))
OF ProtocolIE-Single-Container { {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,
    maximumDLTxPower     DL-Power         OPTIONAL,
    minimumDLTxPower     DL-Power         OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp    OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfRsp    OPTIONAL,
    dl-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
    ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

```

```

Secondary-CCPCH-Info-RL-ReconfRsp ::= SEQUENCE {
    fDD-S-CCPCH-Offset    FDD-S-CCPCH-Offset,
    dl-ScramblingCode     DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                TFCS,
    secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    tFCI-Presence          TFCI-Presence    OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
    17
    multiplexingPosition    MultiplexingPosition,
    sTTD-Indicator          STTD-Indicator,
    fACH-PCH-InformationList FACH-PCH-InformationList-RL-ReconfRsp,
    schedulingInformation    SchedulingInformation-RL-ReconfRsp,
    iE-Extensions          ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
    ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

FACH-PCH-InformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-ReconfRsp

```

```

FACH-PCH-InformationItem-RL-ReconfRsp ::= SEQUENCE {
    transportFormatSet    TransportFormatSet,
    iE-Extensions        ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
    ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

```

```

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

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

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

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

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

DCH-InformationResponseList-RL-ReconfRsp          ::= ProtocolIE-Single-Container { {DCH-
InformationResponseListIEs-RL-ReconfRsp} }

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

DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-ReconfRsp

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

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

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

DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-ReconfRsp          CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-ReconfRsp          PRESENCE optional }
}

DL-CodeInformationListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-ReconfRsp

DL-CodeInformationItem-RL-ReconfRsp ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-
Sequence-Information-Response,
    iE-Extensions             ProtocolExtensionContainer { { DL-CodeInformationItem-RL-
ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

```

```

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

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

-- *****
--
-- RADIO LINK FAILURE INDICATION
--
-- *****

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

RadioLinkFailureIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Reporting-Object-RL-FailureInd CRITICALITY ignore TYPE Reporting-Object-RL-FailureInd
    PRESENCE mandatory },
    ...
}

Reporting-Object-RL-FailureInd ::= CHOICE {
    rL          RL-RL-FailureInd,
    rL-Set     RL-Set-RL-FailureInd,
    ...
}

RL-RL-FailureInd ::= ProtocolIE-Single-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-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {RL-Information-RL-FailureInd-IEs} }

RL-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-FailureInd CRITICALITY ignore TYPE RL-Information-RL-
FailureInd PRESENCE mandatory } }
    ...
}

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

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

RL-Set-RL-FailureInd ::= ProtocolIE-Single-Container { { RL-SetIE-RL-FailureInd } }

RL-SetIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-RL-FailureInd CRITICALITY ignore TYPE RL-SetItem-RL-FailureInd
    PRESENCE mandatory }
}

```



```

RL-SetItem-RL-FailureInd ::= 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-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-RL-FailureInd-IEs} }

RL-Set-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-FailureInd          CRITICALITY ignore  TYPE RL-Set-Information-RL-
FailureInd          PRESENCE mandatory } }
    ...
}

RL-Set-Information-RL-FailureInd ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    cause              Cause,
    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}}
    ...
}

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

RL-RL-RestoreInd ::= ProtocolIE-Single-Container { { RLIE-RL-RestoreInd } }

RLIE-RL-RestoreInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-RestoreInd          CRITICALITY ignore  TYPE RLItem-RL-RestoreInd          PRESENCE
mandatory }
}

RLItem-RL-RestoreInd ::= SEQUENCE {
    rL-InformationList-RL-RestoreInd  RL-InformationList-RL-RestoreInd,
    iE-Extensions                    ProtocolExtensionContainer { { RLItem-RL-RestoreInd-
ExtIEs} } OPTIONAL,
    ...
}

RLItem-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

RL-InformationList-RL-RestoreInd ::= RL-IE-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {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-Single-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-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-RL-RestoreInd-IEs} }

RL-Set-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-Information-RL-RestoreInd          CRITICALITY ignore  TYPE RL-Set-Information-RL-
RestoreInd          PRESENCE mandatory } }
  ...
}

RL-Set-Information-RL-RestoreInd ::= SEQUENCE {
  rL-Set-ID          RL-Set-ID,
  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 MaxAdjustmentStep          PRESENCE
conditional } |
    -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
    { ID id-AdjustmentPeriod              CRITICALITY ignore  TYPE AdjustmentPeriod          PRESENCE
conditional } |
    -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
    { ID id-AdjustmentRatio                CRITICALITY ignore  TYPE ScaledAdjustmentRatio      PRESENCE
conditional },
    -- This IE is present only 'Adjustment Type' equals to 'Common' or 'Individual'
    ...
}

```

```

DL-ReferencePowerInformationList-DL-PC-Rqst ::= RL-IE-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs} }

```

```

DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformation-DL-PC-Rqst CRITICALITY ignore  TYPE DL-
ReferencePowerInformation-DL-PC-Rqst  PRESENCE mandatory } }
...
}

```

```

DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE {
  rL-ID                               RL-ID,
  dl-Reference-Power                   DL-Power,
  iE-Extensions                        ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-
PC-Rqst-ExtIEs} } OPTIONAL,
  ...
}

```

```

DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

```

```

PhysicalChannelReconfigurationRequestFDD ::= 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-Single-Container { {DL-
CodeInformationListIEs-PhyChReconfRqstFDD} }

DL-CodeInformationListIEs-PhyChReconfRqstFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-PhyChReconfRqstFDD CRITICALITY notify TYPE DL-
CodeInformationListIE-PhyChReconfRqstFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-PhyChReconfRqstFDD ::= SEQUENCE (SIZE(1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-PhyChReconfRqstFDD

DL-CodeInformationItem-PhyChReconfRqstFDD ::= SEQUENCE {
  dl-scramblingCode DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  iE-Extensions ProtocolExtensionContainer { {DL-CodeInformationItem-
PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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

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

RL-Information-PhyChReconfRqstTDD ::= SEQUENCE {
  rL-ID RL-ID,
  ul-CCTrCH-Information UL-CCTrCH-InformationList-PhyChReconfRqstTDD,
  dl-CCTrCH-Information DL-CCTrCH-InformationList-PhyChReconfRqstTDD,
  iE-Extensions ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstTDD-
ExtIEs} } OPTIONAL,
  ...
}

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

UL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container { {UL-CCTrCH-
InformationListIEs-PhyChReconfRqstTDD} }

UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD CRITICALITY reject TYPE UL-CCTrCH-
InformationListIE-PhyChReconfRqstTDD PRESENCE mandatory }
}

UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-
InformationItem-PhyChReconfRqstTDD

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

```

```

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

UL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationListIEs-PhyChReconfRqstTDD}}

UL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE UL-DPCH-
InformationItem-PhyChReconfRqstTDD PRESENCE mandatory }
}

UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod OPTIONAL,
    repetitionLength RepetitionLength OPTIONAL,
    tDD-DPCHOffset TDD-DPCHOffset OPTIONAL,
    uL-Timeslot-InformationList-PhyChReconfRqstTDD UL-Timeslot-InformationList-
PhyChReconfRqstTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Timeslot-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-
InformationItem-PhyChReconfRqstTDD

UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence TFCI-Presence OPTIONAL,
    uL-Code-InformationList-PhyChReconfRqstTDD UL-Code-InformationList-PhyChReconfRqstTDD
OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationItem-PhyChReconfRqstTDD

UL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { {UL-Code-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container { {DL-CCTrCH-
InformationListIEs-PhyChReconfRqstTDD} }

DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD CRITICALITY reject TYPE DL-CCTrCH-
InformationListIE-PhyChReconfRqstTDD PRESENCE mandatory }
}

DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationItem-PhyChReconfRqstTDD

DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    dl-DPCH-Information DL-DPCH-InformationList-PhyChReconfRqstTDD,
    iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

DL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Single-Container {{DL-DPCH-
InformationListIEs-PhyChReconfRqstTDD}}

DL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE DL-DPCH-
InformationItem-PhyChReconfRqstTDD PRESENCE mandatory }
}

DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tDD-DPCHOffset            TDD-DPCHOffset            OPTIONAL,
    dL-Timeslot-InformationList-PhyChReconfRqstTDD      DL-Timeslot-InformationList-
PhyChReconfRqstTDD      OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {DL-DPCH-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Timeslot-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-
InformationItem-PhyChReconfRqstTDD

DL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType      OPTIONAL,
    tFCI-Presence              TFCI-Presence                  OPTIONAL,
    dL-Code-InformationList-PhyChReconfRqstTDD      DL-Code-InformationList-PhyChReconfRqstTDD
    OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {DL-Timeslot-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationItem-PhyChReconfRqstTDD

DL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
    dPCH-ID                   DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { {DL-Code-InformationItem-
PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationItem-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 ::= {
  ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION FAILURE
--
-- *****

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

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

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

-- *****
--
-- UPLINK SIGNALLING TRANSFER INDICATION FDD
--
-- *****

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

UplinkSignallingTransferIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
  mandatory { ID id-UC-ID          CRITICALITY ignore TYPE UC-ID          PRESENCE
  } |
  { ID id-SAI          CRITICALITY ignore TYPE SAI          PRESENCE mandatory
  } |
  { ID id-GA-Cell          CRITICALITY ignore TYPE GA-Cell          PRESENCE optional }
  |
  { ID id-C-RNTI          CRITICALITY ignore TYPE C-RNTI          PRESENCE
  mandatory } |
  { ID id-S-RNTI          CRITICALITY ignore TYPE S-RNTI          PRESENCE
  mandatory } |
  { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE
  optional } |
  { ID id-STTD-SupportIndicator          CRITICALITY ignore TYPE STTD-SupportIndicator
  PRESENCE mandatory } |
  { ID id-ClosedLoopModel-SupportIndicator          CRITICALITY ignore TYPE ClosedLoopModel-
  SupportIndicator          PRESENCE mandatory } |
  { ID id-ClosedLoopMode2-SupportIndicator          CRITICALITY ignore TYPE ClosedLoopMode2-
  SupportIndicator          PRESENCE mandatory } |
  { ID id-L3-Information          CRITICALITY ignore TYPE L3-Information          PRESENCE
  mandatory } |
  { ID id-CN-PS-DomainIdentifier          CRITICALITY ignore TYPE CN-PS-DomainIdentifier
  PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier          CRITICALITY ignore TYPE CN-CS-DomainIdentifier
  PRESENCE optional } |

```

```

    { ID id-URA-ID                CRITICALITY ignore  TYPE URA-ID                PRESENCE
mandatory } |
    { ID id-MultipleURAsIndicator  CRITICALITY ignore  TYPE MultipleURAsIndicator
  PRESENCE mandatory } |
    { ID id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD CRITICALITY ignore  TYPE
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD  PRESENCE optional },
    ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD

RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD ::= SEQUENCE {
  rNC-ID                RNC-ID,
  iE-Extensions        ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-
List-UL-ST-IndFDD-ExtIEs} } OPTIONAL,
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

-- *****
--
-- UPLINK SIGNALLING TRANSFER INDICATION TDD
--
-- *****

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

UplinkSignallingTransferIndicationTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UC-ID                CRITICALITY ignore  TYPE UC-ID                PRESENCE
mandatory } |
  { ID id-SAI                  CRITICALITY ignore  TYPE SAI                PRESENCE mandatory
} |
  { ID id-GA-Cell              CRITICALITY ignore  TYPE GA-Cell              PRESENCE optional }
|
  { ID id-C-RNTI               CRITICALITY ignore  TYPE C-RNTI                PRESENCE
mandatory } |
  { ID id-S-RNTI               CRITICALITY ignore  TYPE S-RNTI                PRESENCE
mandatory } |
  { ID id-D-RNTI               CRITICALITY ignore  TYPE D-RNTI                PRESENCE
optional } |
  { ID id-L3-Information        CRITICALITY ignore  TYPE L3-Information          PRESENCE
mandatory } |
  { 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-IndTDD CRITICALITY ignore  TYPE
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD  PRESENCE optional },
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD

RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD ::= SEQUENCE {
  rNC-ID                RNC-ID,
  iE-Extensions        ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-
List-UL-ST-IndTDD-ExtIEs} } OPTIONAL,
  ...
}

```



```

RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

-- *****
--
-- DOWNLINK SIGNALLING TRANSFER REQUEST
--
-- *****

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
mandatory } |
    { ID id-S-RNTI                         CRITICALITY ignore  TYPE S-RNTI         PRESENCE
mandatory } |
    { ID id-IMSI                           CRITICALITY ignore  TYPE IMSI           PRESENCE
mandatory } |
    { ID id-DRXCycleLengthCoefficient       CRITICALITY ignore  TYPE
DRXCycleLengthCoefficient PRESENCE mandatory },
    ...
}

PagingArea-PagingRqst ::= CHOICE {
  uRA          URA-PagingRqst,
  cell        Cell-PagingRqst,
  ...
}

URA-PagingRqst ::= ProtocolIE-Single-Container {{ URAIE-PagingRqst }}

URAIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
  { ID id-URAIItem-PagingRqst  CRITICALITY ignore  TYPE URAItem-PagingRqst PRESENCE mandatory }
}

URAIItem-PagingRqst ::= SEQUENCE {
  uRA-ID          URA-ID,
  iE-Extensions  ProtocolExtensionContainer { { URAItem-PagingRqst-ExtIEs } }
OPTIONAL,
  ...
}

URAIItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-PagingRqst ::= ProtocolIE-Single-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 } |
}

```

```

-- This IE represents both the Dedicated Measurement Object Type IE and the choice based on the
Dedicated Measurement Object Type
-- as described in the tabular message format in subclause 9.1.
  { ID id-DedicatedMeasurementType          CRITICALITY reject  TYPE DedicatedMeasurementType
    PRESENCE mandatory } |
  { ID id-MeasurementFilterCoefficient      CRITICALITY reject  TYPE
MeasurementFilterCoefficient PRESENCE optional } |
  { ID id-ReportCharacteristics            CRITICALITY reject  TYPE ReportCharacteristics
    PRESENCE mandatory },
  ...
}

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
  rL          RL-DM-Rqst,
  rLS         RL-Set-DM-Rqst,
  allRL       All-RL-DM-Rqst,
  allRLS     All-RL-Set-DM-Rqst,
  ...
}

RL-DM-Rqst ::= ProtocolIE-Single-Container { { RLIE-DM-Rqst } }

RLIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
  { ID id-RLItem-DM-Rqst          CRITICALITY reject  TYPE RLItem-DM-Rqst          PRESENCE mandatory }
}

RLItem-DM-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-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {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-Single-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-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rqst-IEs} }

```

```

RL-Set-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-DM-Rqst      CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-
Rqst      PRESENCE mandatory } }
}

RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
  rL-Set-ID          RL-Set-ID,
  iE-Extensions     ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-
ExtIEs} } OPTIONAL,
  ...
}

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

All-RL-DM-Rqst ::= ProtocolIE-Single-Container {{ All-RLIE-DM-Rqst }}

All-RLIE-DM-Rqst RNSAP-PROTOCOL-IES ::= {
  { ID id-All-RLItem-DM-Rqst      CRITICALITY ignore TYPE All-RLItem-DM-Rqst      PRESENCE mandatory }
}

All-RLItem-DM-Rqst ::= NULL

All-RL-Set-DM-Rqst ::= ProtocolIE-Single-Container {{ All-RLIE-Set-DM-Rqst }}

All-RLIE-Set-DM-Rqst RNSAP-PROTOCOL-IES ::= {
  { ID id-All-RLItem-Set-DM-Rqst  CRITICALITY ignore      TYPE      All-RLItem-Set-DM-Rqst
PRESENCE mandatory }
}

All-RLItem-Set-DM-Rqst ::= NULL

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

-- *****
--
-- DEDICATED MEASUREMENT INITIATION RESPONSE
--
-- *****

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

DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore  TYPE MeasurementID          PRESENCE
mandatory } |
  { ID id-DedicatedMeasurementObjectType-DM-Rsp  CRITICALITY ignore  TYPE
DedicatedMeasurementObjectType-DM-Rsp  PRESENCE optional } |
  { 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       RL-DM-Rsp,
  allRLS     RL-Set-DM-Rsp,
  ...
}

RL-DM-Rsp ::= ProtocolIE-Single-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-Single-Container {{ RL-SetIE-DM-Rsp }}

RL-SetIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rsp      CRITICALITY ignore      TYPE      RL-SetItem-DM-Rsp      PRESENCE
      mandatory }
}

RL-SetItem-DM-Rsp ::= SEQUENCE {
    rL-Set-InformationList-DM-Rsp  RL-Set-InformationList-DM-Rsp,
    iE-Extensions                  ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }
OPTIONAL,
    ...
}

RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-DM-Rsp ::= RL-IE-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {RL-Information-DM-Rsp-IEs} }

RL-InformationDM-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-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rsp-IEs} }

RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rsp      CRITICALITY ignore      TYPE      RL-Set-InformationItem-DM-
Rsp      PRESENCE mandatory }
    ...
}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-Set-ID                      RL-Set-ID,
    dedicatedMeasurementValue      DedicatedMeasurementValue,
    iE-Extensions                  ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rspns-
ExtIEs} } OPTIONAL,
    ...
}

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

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

-- *****

```

```

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

DedicatedMeasurementInitiationFailure ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container
    {{DedicatedMeasurementInitiationFailure-IEs}},
    protocolExtensions         ProtocolExtensionContainer
    {{DedicatedMeasurementInitiationFailure-Extensions}}           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-Rpirt CRITICALITY ignore  TYPE
DedicatedMeasurementObjectType-DM-Rpirt PRESENCE mandatory } |
    { ID id-CFN                    CRITICALITY ignore  TYPE CFN                    PRESENCE optional },
    ...
}

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

RL-DM-Rpirt ::= ProtocolIE-Single-Container {{ RLIE-DM-Rpirt }}

RLIE-DM-Rpirt RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rpirt        CRITICALITY ignore    TYPE    RLItem-DM-Rpirt    PRESENCE
mandatory }
}

RLItem-DM-Rpirt ::= SEQUENCE {
    rL-InformationList-DM-Rpirt    RL-InformationList-DM-Rpirt,
    iE-Extensions                 ProtocolExtensionContainer { { RLItem-DM-Rpirt-ExtIEs } }
OPTIONAL,
    ...
}

RLItem-DM-Rpirt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-DM-Rpirt ::= ProtocolIE-Single-Container {{ RL-SetIE-DM-Rpirt }}

RL-SetIE-DM-Rpirt RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-RL-SetItem-DM-Rpirt      CRITICALITY ignore      TYPE      RL-SetItem-DM-Rpirt      PRESENCE
      mandatory      }
  }

RL-SetItem-DM-Rpirt ::= SEQUENCE {
  rL-Set-InformationList-DM-Rpirt  RL-Set-InformationList-DM-Rpirt,
  iE-Extensions                    ProtocolExtensionContainer { { RL-SetItem-DM-Rpirt-ExtIEs } }
OPTIONAL,
  ...
}

RL-SetItem-DM-Rpirt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-DM-Rpirt ::= RL-IE-ContainerListSEQUENCE (SIZE (1..maxNrOfRLs))
OF ProtocolIE-Single-Container { {RL-Information-DM-Rpirt-IEs} }

RL-Information-DM-Rpirt-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rpirt      CRITICALITY ignore      TYPE RL-InformationItem-DM-Rpirt
    PRESENCE mandatory } }
  ...
}

RL-InformationItem-DM-Rpirt ::= SEQUENCE {
  rL-ID                                RL-ID,
  dPCH-ID                              DPCH-ID                                OPTIONAL,
  measurementAvailabilityIndicator      MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions                        ProtocolExtensionContainer { {RL-InformationItem-DM-Rpirt-ExtIEs} }
OPTIONAL,
  ...
}

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

RL-Set-InformationList-DM-Rpirt ::= RL-Set-IE-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rpirt-IEs} }

RL-Set-Information-DM-Rpirt-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-DM-Rpirt      CRITICALITY ignore      TYPE RL-Set-InformationItem-DM-
Rpirt      PRESENCE mandatory } }
  ...
}

RL-Set-InformationItem-DM-Rpirt ::= SEQUENCE {
  rL-Set-ID                            RL-Set-ID,
  measurementAvailabilityIndicator      MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions                        ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rpirt-
ExtIEs} } OPTIONAL,
  ...
}

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

MeasurementAvailabilityIndicator-DedicatedMeasurementReport ::= CHOICE {
  measurementAvailable                MeasurementAvailable-DedicatedMeasurementReport,
  measurementnotAvailable             MeasurementnotAvailable-DedicatedMeasurementReport,
  ...
}

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-Single-Container {{
MeasurementAvailableIE-DedicatedMeasurementReport }}

MeasurementAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE
MeasurementAvailableItem-DedicatedMeasurementReport      PRESENCE mandatory}
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
  dedicatedmeasurementValue           DedicatedMeasurementValue,
  ie-Extensions                       ProtocolExtensionContainer { { MeasurementAvailableItem-
DedicatedMeasurementReport-ExtTIEs} }      OPTIONAL,
  ...
}

```

```

MeasurementAvailableItem-DedicatedMeasurementReport-ExtTIES RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
MeasurementnotAvailable-DedicatedMeasurementReport ::= ProtocolIE-Single-Container {{
MeasurementnotAvailableIE-DedicatedMeasurementReport }}

MeasurementnotAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE
MeasurementnotAvailableItem-DedicatedMeasurementReport PRESENCE mandatory}
}

MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL

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

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

DedicatedMeasurementTerminationRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container
  {{DedicatedMeasurementTerminationRequest-IEs}},
  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,
  ...
}

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

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

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

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

```



```

    protocolExtensions          ProtocolExtensionContainer
  {{CommonTransportChannelResourcesReleaseRequest-Extensions}}          OPTIONAL,
  ...
}

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-C-ID                  CRITICALITY reject TYPE C-ID            PRESENCE
optional  } |
  { ID id-TransportBearerRequestIndicator CRITICALITY reject TYPE
TransportBearerRequestIndicator PRESENCE mandatory } |
  { ID id-TransportBearerID      CRITICALITY reject TYPE TransportBearerID
PRESENCE mandatory },
  ...
}

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE FDD
--
-- *****

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

CommonTransportChannelResourcesResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-S-RNTI                CRITICALITY ignore TYPE S-RNTI          PRESENCE
mandatory } |
  { ID id-C-RNTI                CRITICALITY ignore TYPE C-RNTI          PRESENCE
optional  } |
  { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-
InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD PRESENCE optional } |
  { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-
InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD PRESENCE optional } |
  { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE RACH-
InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD PRESENCE optional } |
  { ID id-URA-ID                CRITICALITY ignore TYPE URA-ID          PRESENCE
optional } |
  { ID id-MultipleURAsIndicator CRITICALITY ignore TYPE MultipleURAsIndicator
PRESENCE optional } |
  { ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD CRITICALITY ignore TYPE
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD PRESENCE optional } |

```

```

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

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

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container {{
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD CRITICALITY ignore  TYPE
PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD PRESENCE mandatory }
}

PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16)) OF
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD ::= SEQUENCE {
  fACH-PriorityIndicator                   SchedulingPriorityIndicator,
  mAC-c-sh-SDU-Lengths                    MAC-c-sh-SDU-LengthList-CTCH-ResourceRspFDD,
  fACH-InitialWindowSize                  FACH-InitialWindowSize,
  iE-Extensions                           ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

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

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
  fDD-S-CCPCH-Offset                     FDD-S-CCPCH-Offset,
  dl-ScramblingCode                      DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber        FDD-DL-ChannelisationCodeNumber,
  dl-TFCS                                 TFCS,
  secondaryCCPCH-SlotFormat              SecondaryCCPCH-SlotFormat,
  multiplexingPosition                   MultiplexingPosition,
  sTTD-Indicator                         STTD-Indicator,
  priorityIndicatorAndInitialWindowSizeList PriorityIndicatorAndInitialWindowSizeList-option-
CTCH-ResourceRspFDD,

```

```

    iE-Extensions                ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedS-CCPCH-
    CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Single-Container
{{ PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspFDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD CRITICALITY
    ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD PRESENCE
    mandatory }
}

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16))
OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD

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

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

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

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

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

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

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

RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD ::= SEQUENCE {
    preambleSignatures            PreambleSignatures,
    pRACH-MinimumSpreadingFactor  PRACH-MinimumSpreadingFactor,
    scramblingCodeNumber          ScramblingCodeNumber,
    punctureLimit                 PunctureLimit,
    rACH-SubChannelNumbers        RACH-SubChannelNumbers,
    iE-Extensions                 ProtocolExtensionContainer { { RACH-
InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs } } OPTIONAL,
    ...
}

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

RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD

RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD ::= SEQUENCE {
    rNC-ID                        RNC-ID,

```

```

    iE-Extensions          ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-
List-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY ignore TYPE S-RNTI          PRESENCE
mandatory } |
    { ID id-C-RNTI          CRITICALITY ignore TYPE C-RNTI          PRESENCE
optional  } |
    { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-
InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-
InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE RACH-
InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-URA-ID          CRITICALITY ignore TYPE URA-ID          PRESENCE
optional  } |
    { ID id-MultipleURAsIndicator CRITICALITY ignore TYPE MultipleURAsIndicator
PRESENCE optional } |
    { ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress
PRESENCE optional } |
    { ID id-BindingID          CRITICALITY ignore TYPE BindingID          PRESENCE
optional  } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
PRESENCE optional },
    ...
}

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizeList-CTCH-
ResourceRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD ::= ProtocolIE-Single-Container {{
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD PRESENCE mandatory }
}

PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    fACH-PriorityIndicator          SchedulingPriorityIndicator,

```

```

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

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

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

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

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

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

MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    dl-TFCS                            TFCS,
    secondaryCCPCHs                    SecondaryCCPCHList-CTCH-ResourceRspTDD,
    iE-Extensions                       ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedS-CCPCH-
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Single-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,
    midambleShiftAndBurstType           MidambleShiftAndBurstType,
    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-Single-Container
{{ PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD CRITICALITY
      ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD PRESENCE
      mandatory }
  }

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16))
OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
  fACH-PriorityIndicator          SchedulingPriorityIndicator,
  MAC-c-sh-SDU-Lengths           MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD,
  fACH-InitialWindowSize         FACH-InitialWindowSize,
  IE-Extensions                  ProtocolExtensionContainer {
  {PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
  MAC-c-sh-SDU-Length           MAC-c-sh-SDU-Length,
  IE-Extensions                 ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthItem-option-
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
  tDD-ChannelisationCode       TDD-ChannelisationCode,
  timeSlot                     TimeSlot,
  pRACH-Midamble               PRACH-Midamble OPTIONAL,
  IE-Extensions                 ProtocolExtensionContainer { { RACH-InfoForDRNCSelectedPRACH-
CTCH-ResourceRspTDD-ExtIEs } } OPTIONAL,
  ...
}

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

RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD

RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD ::= SEQUENCE {
  rNC-ID                       RNC-ID,
  IE-Extensions                 ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-
List-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES FAILURE

```

```

--
-- *****

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

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

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

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

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

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

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

-- *****
--
-- ERROR INDICATION
--
-- *****

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

ErrorIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Cause                  CRITICALITY ignore TYPE Cause                PRESENCE
conditional
-- At least either of Cause IE or Criticality IE shall be present --
    } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
PRESENCE conditional
-- At least either of Cause IE or Criticality IE shall be present --
    },
    ...
}

```

```
ErrorIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
-- *****
--
-- PRIVATE MESSAGE
--
-- *****

PrivateMessage ::= SEQUENCE {
  privateIEs      PrivateIE-Container  {{PrivateMessage-IEs}},
  ...
}

PrivateMessage-IEs RNSAP-PRIVATE-IES ::= {
  ...
}

END
```





Other  
comments:



---

## 2 References

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

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

- [1] 3GPP TS 23.003: "Numbering, addressing and identification".
- [2] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3GPP TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] (void)
- [6] 3GPP TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception"
- [7] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3GPP TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)"
- [10] ~~3GPP TS UMTS~~ 25.214: "Physical Layer Procedures (FDD)".
- [11] 3GPP TS 25.215: "Physical Layer – Measurements (FDD)".
- [12] 3GPP TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3GPP TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3GPP TS 25.225: "Physical Layer – Measurements (TDD)".
- [15] 3GPP TS 25.304: "UE Procedures in Idle Mode"
- [16] 3GPP TS 25.331: "RRC Protocol Specification".
- [17] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] [ITU-T Recommendation X.680](#) (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (12/97): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [20] ITU-T Recommendation X.691 (12/97): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [21] 3GPP TS 25.213: "-Spreading and modulation (FDD)"
- [22] 3GPP TS 25.224: "-Physical Layer Procedures (TDD)"
- [23] 3GPP TS 25.133: "~~3GPP~~ Requirements for support of Radio Resource management (FDD)~~3GPP~~".
- [24] 3GPP TS 25.123: "~~3GPP~~ Requirements for support of Radio Resource management (TDD)~~3GPP~~".

- [25] 3GPP TS 23.003: "Universal Graphical Area Description (GAD)".
- [26] 3GPP TS 25.302: "Services Provided by the Physical Layer".
- [27] 3GPP TS 25.213: "Spreading and modulation (FDD)".

## 3.1 Definitions

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

**Elementary Procedure:** RNSAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between two RNCs. An EP consists of an initiating message and possibly a response message. Two kinds of EPs are used:

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

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

### Successful

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

### Unsuccessful

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

Class 2 EPs are considered always successful.

**Prepared Reconfiguration:** A Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist any more after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed.

**UE Context:** The UE Context contains the necessary information for the DRNC for communication with a specific UE. The UE Context is created ~~in conjunction with~~by the Radio Link Setup procedure or by the Uplink Signalling Transfer procedure when the UE makes its first access in a cell controlled by the DRNS. The UE Context is deleted by the Radio Link Deletion procedure or by the Common Transport Channel Resources Release procedure when ~~no~~~~neither any more~~ Radio Links nor any common transport channels are established towards the concerning UE. The UE Context is identified by the SCCP Connection for messages using connection oriented mode of the signalling bearer and the D-RNTI for messages using connectionless ~~oriented~~ mode of the signalling bearer, unless specified otherwise in the procedure text.

## 4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the [DRNC/CRNC](#) exactly and completely. The SRNC functional behaviour is left unspecified. The Physical Channel Reconfiguration procedure is an exception from this principle.

## 8.1 Elementary Procedures

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

**Table 2: Class 1**

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

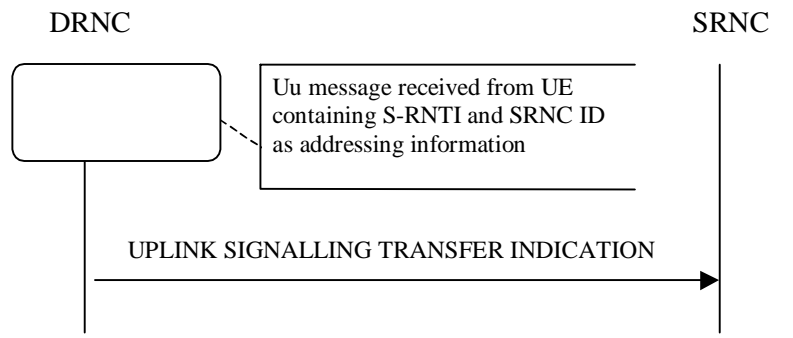
The need for Timers will be defined on a per procedure basis. The content of this column is thus FFS.

Table 3: Class 2

Elementary Procedure	Initiating Message
Uplink Signalling Transfer	UPLINK SIGNALLING TRANSFER INDICATION
Downlink Signalling Transfer	DOWNLINK SIGNALLING TRANSFER REQUEST
<del>SRNS Relocation Commit</del>	<del>SRNS RELOCATION COMMIT</del>
Paging	PAGING REQUEST
Synchronised Radio Link Reconfiguration Commit	RADIO LINK RECONFIGURATION COMMIT
Synchronised Radio Link Reconfiguration Cancellation	RADIO LINK RECONFIGURATION CANCEL
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Measurement Reporting	DEDICATED MEASUREMENT REPORT
Measurement Termination	DEDICATED MEASUREMENT TERMINATION REQUEST
Measurement Failure	DEDICATED MEASUREMENT FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode <del>Commit Command</del> [FDD]	COMPRESSED MODE <del>COMMAND</del> COMMIT
<del>Compressed Mode Cancellation</del> [FDD]	<del>COMPRESSED MODE CANCEL</del>
Common Transport Channel Resources Release	COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST
Error Indication	ERROR INDICATION



8.2.1.2 Successful Operation



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

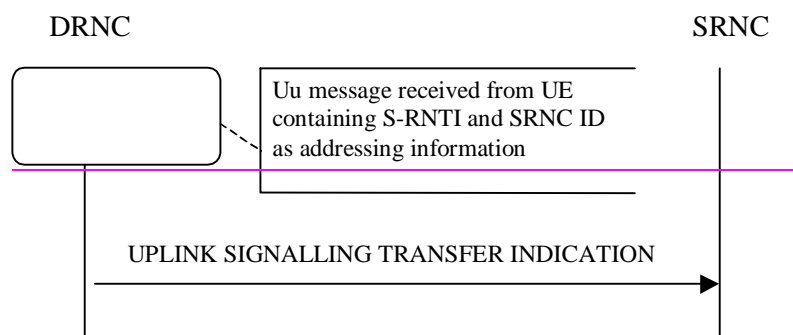
When the DRNC receives an Uu message on the CCCH where the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, DRNC shall send the UPLINK SIGNALLING TRANSFER INDICATION message to the SRNC identified by the SRNC-ID received from the UE.

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

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

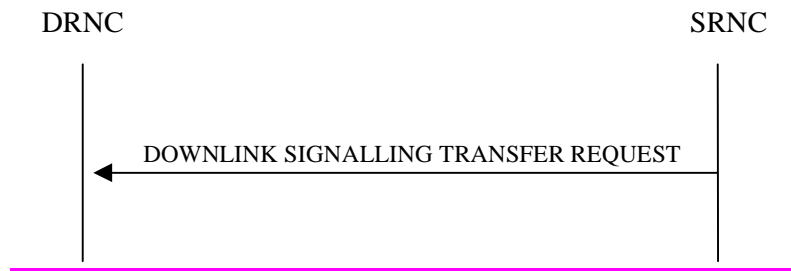
If the message received from the UE was the first message from that UE in the DRNC, the DRNC shall include the *D-RNTI* IE and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell where the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message.



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

### 8.2.2.2 Successful Operation



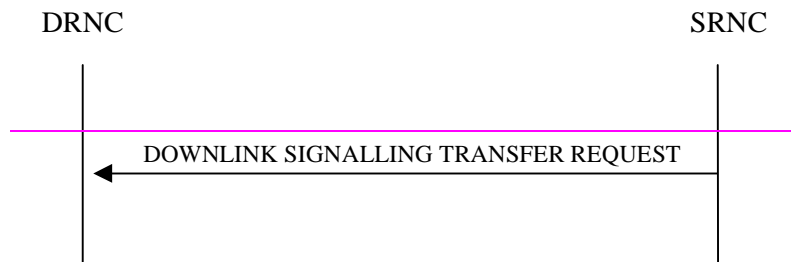
**Figure 3: Downlink Signalling Transfer procedure, Successful Operation**

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

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

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

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI", the D-RNTI and thus the UE Context and any DRNS resource allocated to the UE Context shall be released at the reception of the UPLINK SIGNALLING TRANSFER INDICATION message.



**Figure 2: Downlink Signalling Transfer procedure, Successful Operation**

### 8.2.3.2 Successful Operation



**Figure 5: Relocation Commit procedure, Successful Operation**

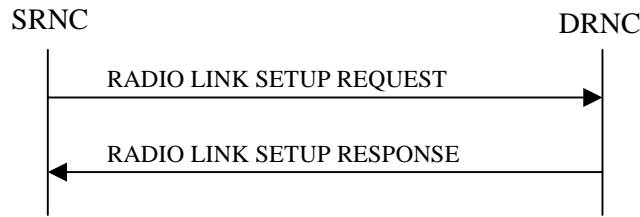
The source RNC sends the RELOCATION COMMIT message to the target RNC to request the target RNC to proceed with the Relocation. When the UE is utilising one or more radio links in the DRNC the message shall be sent using the connection oriented service of the signalling bearer and no further identification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

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



**Figure 3: Relocation Commit procedure, Successful Operation**

### 8.3.1.2 Successful Operation



**Figure 7: 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* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

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

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

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

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

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

[FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with  $DPC\_MODE=0$  and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved for the concerning RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3). ]

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

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

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

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

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

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used when those are activated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

[TDD – The DRNS shall use the ~~*RB Identity IE*~~ list of *RB Identities inside in the RB Info IE* in the *USCH Information IE USCH information group* to map each *RB Identity* IE to the corresponding USCH.]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 8.3.2 Radio Link Addition

### 8.3.2.1 General

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

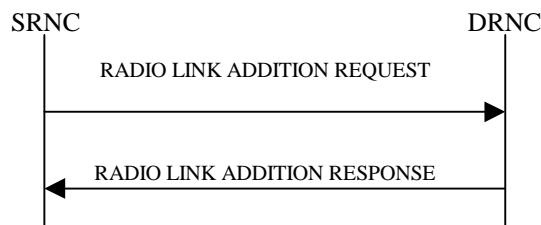
This procedure shall use the signalling bearer connection for the relevant UE context.

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

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

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

### 8.3.2.2 Successful Operation



**Figure 8: Radio Link Addition procedure: Successful Operation**

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

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with DPC\_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

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



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

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

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

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

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

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

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

In the case of combining an RL with existing RL(s) the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication IE 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 IE Diversity Indication* that no combining is done. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

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

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

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the neighbouring cell.

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

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message.

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



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

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

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

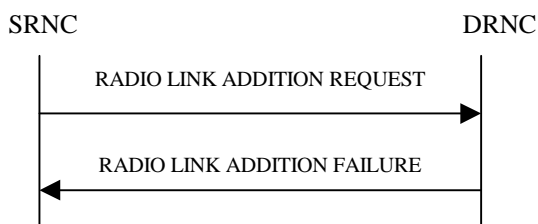
[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control IE* was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCCH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

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

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

### 8.3.2.3 Unsuccessful Operation



**Figure 9: Radio Link Addition procedure: Unsuccessful Operation**

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

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

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

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

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

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

Typical cause values are:

**Radio Network Layer Causes:**

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

**Transport Layer Causes:**

- Transport Link Failure.

**Miscellaneous Causes:**

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

#### 8.3.2.4 Abnormal Conditions

-

## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

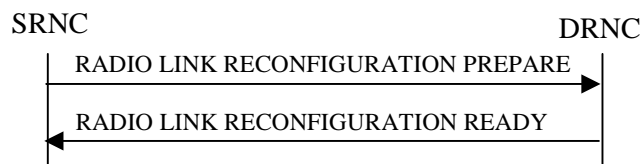
### 8.3.4.1 General

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

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

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

### 8.3.4.2 Successful Operation



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

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

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

#### **DCH Modification:**

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

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

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

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to DCHs to Add* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

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

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

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

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

#### **DCH Deletion:**

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

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

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Codes* IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

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

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

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *Diversity Mode* IE, the DRNS shall apply diversity according to the given value.]

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

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

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

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

#### [TDD – UL/DL CCTrCH Addition]

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

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

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

If the requested modifications are allowed by the DRNS, and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s) it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

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

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

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

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

#### Compressed Mode Preparation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

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

#### DSCH Addition/Modification/Deletion:

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported ~~MAC-c/sh SDU lengths~~ *MAC-c/sh SDU lengths*.

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

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

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

The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

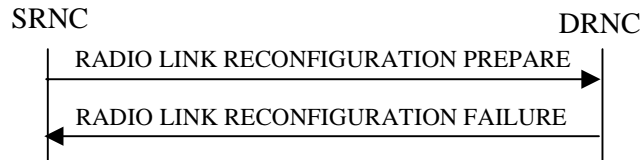
To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of USCH Priority classes each of which is associated with a set of supported ~~MAC-c/sh SDU lengths~~ *MAC-c/sh SDU lengths*.



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

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

### 8.3.4.3 Unsuccessful Operation



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

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

If the requested Synchronised Radio Link Reconfiguration procedure fails for one or more RLs the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

~~—If the requested Synchronised Radio Link Reconfiguration procedure fails for one or more RLs the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.~~

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [TDD – or no DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected"] the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings;
- Number of DL codes not supported;
- [TDD- DCH not Supported];
- DSCH not Supported;
- [TDD - USCH not Supported];
- [FDD - UL Spreading Factor not Supported];
- [FDD - DL Spreading Factor not Supported];

- CM not Supported.

**Protocol Causes:**

- Transaction not Allowed.

**Miscellaneous Causes:**

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

#### 8.3.4.4 Abnormal Conditions

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



## 8.3.5 Synchronised Radio Link Reconfiguration Commit

### 8.3.5.1 General

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

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

### 8.3.5.2 Successful Operation



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

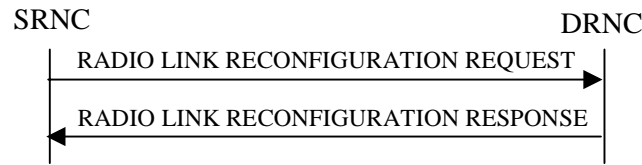
The DRNS shall switch to the new configuration previously prepared by the Synchronised RL Reconfiguration procedure at the CFN requested by the SRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the SRNC. [FDD – The CFN shall be ignored by DRNS if only Transmission Gap Pattern Sequence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

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

### 8.3.5.3 Abnormal Conditions

=

### 8.3.7.2 Successful Operation



**Figure 13: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation**

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

Upon reception, the DRNS shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

#### **DCH Modification:**

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

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

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a ~~DCHs to~~ *DCHs to Add* IE with multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the ~~DCHs to~~ *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can all of them in the new configuration.

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

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

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

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

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

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

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

#### **DCH Deletion:**

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

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

#### **Physical Channel Modification:**

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

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

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] [subclause section 5.2.1](#) for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

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

**[TDD – UL/DL CCTrCH Deletion]**

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

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

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

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

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

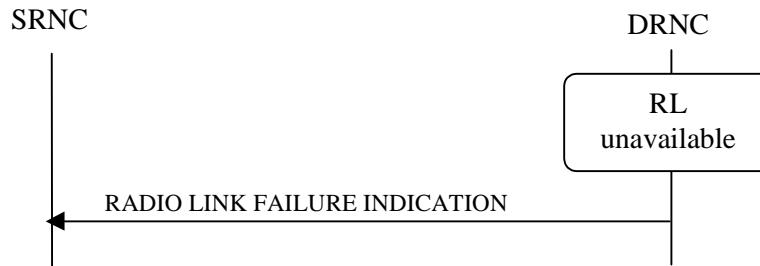
In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response IE* shall be included only for one of the combined Radio Links.

**Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]

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

### 8.3.9.2 Successful Operation



**Figure 14: RL Failure procedure, Successful Operation**

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

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

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links or Radio Link Sets are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the DRNS shall not remove the Radio Link from the UE context, or the UE context itself. When applicable, the allocation retention priorities associated to the transport channels shall be used by the DRNS to prioritise which Radio Links to indicate as unavailable to the SRNC.

Typical cause values are:

**Radio Network Layer Causes:**

- Synchronisation Failure.

**Miscellaneous Causes:**

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

## 8.3.10.2 Successful Operation

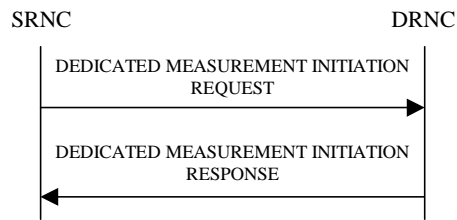


**Figure 15: RL Restoration procedure, Successful Operation**

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when indicated by the UL sync detection algorithm defined in ref. [10] and [22]. [FDD – The algorithm in ref. [10] shall use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set].

[TDD - If the re-established synchronisation concerns one or more individual Radio Links the DRNC shall indicate the affected Radio Link(s) using the *RL Information IE group*.] [FDD - If the re-established synchronisation concerns one or more Radio Link Sets the DRNC shall indicate the affected Radio Link Set(s) using the *RL Set Information IE group*.]

### 8.3.11.2 Successful Operation



**Figure 16: Measurement Initiation procedure, Successful Operation**

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

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

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

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

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

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

#### Report characteristics

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

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

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

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

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

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

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

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

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

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

#### Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

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

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

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

#### Response message

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

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



## 8.3.15.2 Successful Operation



**Figure 17: Downlink Power Control procedure, Successful Operation**

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

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

If the value of the *Power Adjustment Type* IE is "Common", the DRNC shall perform the power adjustment (see below) for all radio links for the UE context using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the DRNC shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Power per RL.

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

#### Power Adjustment

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

$$\sum P_{bal} = (1 - r)(P_{ref} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE,  $P_{ref}$  is the value of the *DL Reference Power* IE,  $P_{init}$  is the power at the beginning of the adjustment period and  $r$  is given by the *Adjustment Ratio* IE.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the DRNC.

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

## 8.3.16.2 Successful Operation

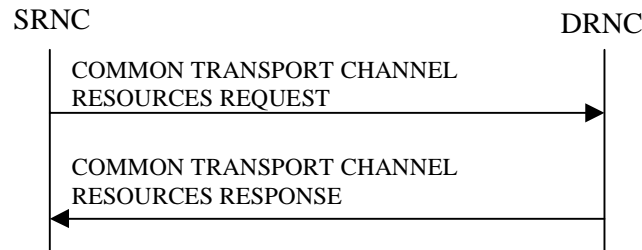


**Figure 18: Compressed Mode Command procedure, Successful Operation**

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

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

### 8.4.1.2 Successful Operation



**Figure 19: 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-ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer not Requested", the DRNC shall use the transport bearer for the indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If there exists multiple Secondary CCPCHs in the cell indicated by the *C-ID* IE or if no *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCE REQUEST message in the cell where the UE is located and the DRNC decides to use the DRNC selected Secondary CCPCH instead of UE selected Secondary CCPCH, the *FACH Info for DRNC Selected S-CCPCH* IE **group** shall be included in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the DRNC includes the *FACH Info for DRNC Selected S-CCPCH* IE **group**, then it shall also include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class for this Secondary CCPCH.

If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message or if the DRNC does not include the *FACH Info for DRNC Selected S-CCPCH* IE **group** in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE **group** in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. The DRNC shall include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE in the *FACH Info for UE Selected S-CCPCH* IE **group** for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If there exists multiple RACHs in the cell where the UE is located and the DRNC decides to use the DRNC selected PRACH instead of the UE selected PRACH, the *RACH Info for DRNC Selected PRACH* IE **group** shall be included in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *URA ID* IE of the cell identified by the received *C-ID* IE, the *Multiple URA Indicator* IE indicating whether or not the cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA in the cell.

## 9.1.1 General

This subclause defines the structure of the messages required for the RNSAP protocol in tabular format. The corresponding ASN.1 definition is presented in ~~subclause section~~ 9.3. In case there is contradiction between the tabular format in ~~subclause section~~ 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.

## 9.1.3 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		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
SRNC-Id	M		RNC-Id 9.2.1.50		YES	reject
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL Channelisation Codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.1.46A		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M		9.2.1.4		–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	C_ifAlone		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	C_ifAlone		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O		9.2.2.47A		YES	reject
Active Pattern Sequence Information	O		9.2.2.A		YES	reject

Condition	Explanation
CodeLen	This IE is present only if <i>Min UL Channelisation Code Length IE</i> " <i>Min UL Channelisation Code length</i> " equals to 4
SlotFormat	This IE is only present if the <i>DL DPCH Slot Format IE</i> <i>DL DPCH Slot Format</i> 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 <i>RL Information IERL Information</i> .
Diversity mode	This IE is present unless <i>Diversity Mode IE</i> in <i>UL DPCH Information group-IE</i> is "none"
C_ifalone	Either <i>Initial DL TX Power Initial DL TX Power-IE</i> or <i>Primary CPICH Ec/No Primary CPICH Ec/No-IE</i> shall be present.

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

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
SRNC-Id	M		RNC-Id 9.2.1.50		YES	reject
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL Physical Channel Information</b>		1			EACH	reject
>Maximum Number of Timeslots per frame	M		9.2.3.3A	For the UL	=	
>Minimum Spreading Factor	M		9.2.3.4A	For the UL	=	
>Maximum Number of UL Physical Channels per Timeslot	M		9.2.3.3B		=	
<b>DL Physical Channel Information</b>		1			EACH	reject
>Maximum Number of Timeslots per frame	M		9.2.3.3A	For the DL	=	
>Minimum Spreading Factor	M		9.2.3.4A	For the DL	=	
>Maximum Number of DL Physical Channels per Frame	M		9.2.3.3C		=	
<b>UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and USCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
<b>DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and DSCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
>TDD TPC Downlink Step Size	M		9.2.3.10		–	
<b>&gt;TPC CCTrCH List</b>		1 to <maxno CCTrCHs>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.2		–	
<b>DCH Information</b>		0..<maxno of DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped	–	



>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	C-CoordDCH		9.2.1.46A		–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M				–	
>CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped	–	
>TrCh Source Statistics Descriptor	M				–	
>Transport Format Set	M			For DSCH	–	
>Allocation/Retention Priority	M				–	
>Scheduling Priority Indicator	M				–	
>BLER	M		9.2.1.4		–	
<b>USCH Information</b>		0 to <maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.14		–	
>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>Transport Format Set	M		9.2.1.64	For USCH	–	
>Allocation/Retention Priority	M		9.2.1.1		–	
>Scheduling Priority Indicator	M		9.2.1.51A		–	
<b>&gt;RB Info</b>		1 to <maxnoof RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M		9.2.3.5B		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	
<b>&gt;Time Sslot ISCP Info</b>		0..<maxno ofDLts>			–	
>>Time Sslot	M				–	
>>DL Timeslot ISCP	M		9.2.3.12		–	

Condition	Explanation
CoordDCH	This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of the <i>DCH Specific Info IE</i> <i>DCH Specific Info</i> is greater than 1)

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

## 9.1.4 RADIO LINK SETUP RESPONSE

### 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O		9.2.1.5A		–	
>UTRAN Access Point Position	O		9.2.1.70A		–	
>RSSI	M		9.2.2.35A		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>Diversity Indication	C-NotFirstRL		9.2.2.7		–	
>CHOICE <i>d</i> Diversity Indication	<i>M</i>				<i>=</i>	
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		<i>0..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed <i>L</i> oop <i>T</i> iming <i>A</i> adjustment <i>M</i> mode	O		<i>9.2.2.3A</i>		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		<i>1..&lt;Maxno ofDSCHs&gt;</i>			–	
>>>DSCH ID	M		<i>9.2.1.26A</i>		–	
>>>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		<i>1..&lt;MaxNb MAC-c/shSDUL ength&gt;</i>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH <i>C</i> ode <i>M</i> apping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		<i>0..&lt;maxnoof neighbourin gRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<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		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
—>Timing Adjustment Required	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>DL Timeslot Information		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>DL Code Information		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighbouringRNCs >			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.5 RADIO LINK SETUP FAILURE

### 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
CHOICE <i>C</i> ause <i>L</i> evel	<b>M</b>				<b>YES</b>	<b>ignore</b>
>General					Yes	ignore
>>Cause	M					
>RL <i>S</i> pecific					Yes	ignore
>>Unsuccessful RL Information Response		1...<max number of RLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>Successful RL Information Response		0..<max number of RLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>URA ID	M		9.2.1.70		–	
>>>SAI	M		9.2.1.52		–	
>>>RSSI	M		9.2.2.35A		–	
>>>DL Code Information		1..<max number of DL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>Transmission Gap Pattern Sequence Information Response	O		9.2.2.47B		–	
>>>Diversity Indication	M		9.2.2.7		–	
>>>CHOICE <i>D</i> iversity <i>I</i> ndication	<b>M</b>				–	
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>>>>Non Combining <i>or</i> First RL					YES	ignore
>>>>>DCH Information Response		0..<max number of DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed <i>L</i> oop <i>T</i> iming <i>A</i> adjustment <i>M</i> ode	O				-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>>>DSCH Information Response		0..<maxno of DSCHs>			GLOBAL	ignore
>>>>DSCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>>Neighbouring Cell Information	O	0..<maxno of neighbourin gRNCs>			EACH	ignore
>>>>>RNC-Id	M		9.2.1.50		–	
>>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>>>Per FDD Cell Information		0..<maxno of FDDneig hbours>			–	
>>>>>>C-Id	M		9.2.1.6		–	
>>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>>>>>Per TDD Cell Information		0..<maxno of TDDneig hbours>			–	
>>>>>>>C-Id	M		9.2.1.6		–	
>>>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>>>Sync Case	M		9.2.1.54		–	
>>>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>>>Block STTD Indicator	M				–	
>>>>>>>Cell Individual Offset	O		9.2.1.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

### 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>Cause Level</i>	<b>M</b>				<b>YES</b>	<b>ignore</b>
>General					Yes	ignore
>>Cause	M					
>RL <i>sSpecific</i>					Yes	ignore
<b>&gt;&gt;Unsuccessful RL Information Response</b>		1			YES	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

## 9.1.6 RADIO LINK ADDITION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	reject
<b>RL Information</b>		<i>1..&lt;maxnoofRLs-1&gt;</i>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40			
>Transmit Diversity Indicator	O		9.2.2.50		–	
Active Pattern Sequence Information	O			Either all the already active Transmission Gap Sequence(s) are addressed (Transmission Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject

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

## 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	
>Time Slot ISCP Info		0..<maxnoofDLts>			–	
>>Time Slot	M				–	
>>DL Timeslot ISCP	M		9.2.3.12		–	

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

## 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>RSSI	M		9.2.2.35A		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> <b>DL Code Information</b>		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>d</i> iversity <i>i</i> ndication	<i>M</i>				<i>–</i>	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL-Id	-	
>>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		9.2.1.16		-	
>>>>Binding ID	M		9.2.1.3		-	
>>>>Transport Layer Address	M		9.2.1.62		-	
>SSDT Support Indicator	M		9.2.2.43		-	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Closed Loop Timing Adjustment Mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		-	
>Maximum DL TX Power	M		DL Power 9.2.2.10		-	
>Minimum DL TX Power	M		DL Power 9.2.2.10		-	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		-	
>>CN PS Domain Identifier	O		9.2.1.12		-	
>>CN CS Domain Identifier	O		9.2.1.11		-	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			-	
>>>C-Id	M		9.2.1.6		-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	-	
>>>Frame Offset	O		9.2.1.30		-	
>>>Primary Scrambling Code	M		9.2.1.45		-	
>>>Primary CPICH Power	O		9.2.1.44		-	
>>>Cell Individual Offset	O		9.2.1.7		-	
>>>Tx Diversity Indicator	M		9.2.2.50		-	
>>>STTD Support Indicator	O		9.2.2.45		-	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		-	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		-	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>urs&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the <i>Secondary CCPCH Slot Format IE</i> is equal to any of the values 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		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofU Lts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf D PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		1 to <maxnoOf S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		1 to <maxnoOf D PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Channelisation Code						
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>eDiversity Indication</i>	<i>M</i>				<i>=</i>	
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>>Non <i>eCombining</i>					YES	ignore
>>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULen gth>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>>>CHOICE <i>Diversity Indication</i> >>>>CHOICE <i>Diversity Indication</i>	<i>M</i>				–	
>>>>Non <i>eCombining</i>					–	
>>>>>Binding ID	M				–	
>>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>>>>CHOICE <i>Diversity</i>					–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<i>Indication</i> >>> <b>CHOICE Diversity Indication</b>						
>>>>Non Combining					–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>>RNC-Id	M		9.2.1.50		–	
>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>			–	
>>>>C-Id	M		9.2.1.6		–	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>Frame Offset	O		9.2.1.30		–	
>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>			–	
>>>>C-Id	M		9.2.1.6		–	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>Frame Offset	O		9.2.1.30		–	
>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>Sync Case	M		9.2.1.54		–	
>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>Block STTD Indicator	M				–	
>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

## 9.1.8 RADIO LINK ADDITION FAILURE

### 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
CHOICE <i>C</i> ause <i>L</i> evel	<b>M</b>				<b>YES</b>	<b>ignore</b>
>General					Yes	ignore
>>Cause	M					
>RL <i>S</i> pecific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		-	
>>>Cause	M		9.2.1.5		-	
>>>Successful RL Information Response		0..<maxnoof RLS-2>			EACH	ignore
>>>RL ID	M		9.2.1.49		-	
>>>RL Set ID	M		9.2.2.35		-	
>>>URA ID	M		9.2.1.70		-	
>>>SAI	M		9.2.1.52		-	
>>>RSSI	M		9.2.2.35A		-	
>>>DL Code Information		1..<maxnoof DL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>Transmission Gap Pattern Sequence Information Response	O		9.2.2.47B		-	
>>>Diversity Indication	M		9.2.2.7		YES	ignore
>>>CHOICE <i>d</i> iversity <i>I</i> ndication	<b>M</b>				<b>=</b>	
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL- <i>I</i> d	-	
>>>>>Non <i>C</i> ombining					YES	ignore
>>>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	-	
>>>>>>DCH ID	M		9.2.1.16		-	
>>>>>>Binding ID	M		9.2.1.3		-	
>>>>>>Transport Layer Address	M		9.2.1.62		-	
>>>SSDT Support Indicator	M		9.2.2.43		-	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>>>Closed <i>L</i> oop <i>T</i> iming <i>A</i> adjustment <i>M</i> ode	O				-	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		-	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
<b>&gt;&gt;&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoofn eighbouringR NCs&gt;</i>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbo urs&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7			
>>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>>STTD Support Indicator	O		9.2.2.45			
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbo urs&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore



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

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

### 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>C</i> ause <i>L</i> evel	<i>M</i>				<i>YES</i>	<i>ignore</i>
>General					Yes	ignore
>>Cause	M					
>RL <i>S</i> pecific					Yes	ignore
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

## 9.1.11 RADIO LINK RECONFIGURATION PREPARE

### 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		<i>0..1</i>			YES	reject
>UL Scrambling Code	O		9.2.2.53		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69		–	
>Min UL Channelisation Code Length	O		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	O		9.2.1.46	For the UL.	–	
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		9.2.2.52		–	
>Diversity mode	O		9.2.2.8		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S-Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		<i>0..1</i>			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>DL DPCH Slot Format	O		9.2.2.9		–	
>Number of DL Channelisation Codes	O				–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	O		9.2.2.26		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxnoof DCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
<b>DCHs to Add</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxnoof DCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.1.46A		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCH to Modify</b>		0..1			YES	reject
>DSCH Info		0..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	O					
>>Transport Format Set	O			For DSCH	–	
>>Allocation/Retention Priority	O				–	
>>Scheduling Priority Indicator	O				–	
>>BLER	O		9.2.1.4		–	
>PDSCH RL ID	O		RL ID		–	
>Transport Format Combination SetTFCS	O			For DSCH	–	
<b>DSCH to Add</b>		0..1			YES	reject
>DSCH Info		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M		9.2.1.4		–	
>PDSCH RL ID	M		RL ID		–	
>Transport Format Combination SetTFCS	M			For DSCH	–	
<b>DSCHs to Delete</b>		0..1			YES	reject
>DSCH Info		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
<b>RL Information</b>		0..<maxnoof RLs>			EACH	reject
>RL ID	M		9.2.1.49		–	
>SSDT Indication	O		9.2.2.41		–	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the <i>SSDT Indication IE</i> <del>SSDT Indication</del> is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if <del>the Min UL Channelisation Code Length IE "Min-UL-Channelisation-Code-length"</del> equals to 4.
SlotFormat	This IE is only present if the <i>DL DPCH Slot Format IE</i> <del>DL-DPCH Slot Format</del> is equal to any of the values 12 to 16.
Diversity mode	This IE is present if <i>Diversity Mode IE</i> is present in <del>the UL DPCH Information group IE and, unless it is not</del> equal to "none".

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

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CcTrCH to Add</b>		0..<maxno of CcTrCHs>		For DCH and USCH	EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>TFCl Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.40		–	
<b>UL CcTrCH to Modify</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCl Coding	O				–	
>Puncture Limit	O				–	
<b>UL CcTrCH to Delete</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				–	
<b>DL CcTrCH to Add</b>		0..<maxno of CcTrCHs>		For DCH and DSCH	EACH	notify
>CcTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>TFCl Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
<b>&gt;TPC CcTrCH List</b>		1 to <maxno CcTrCH>		List of uplink CcTrCH which provide TPC	–	
>>TPC CcTrCH ID	M		CcTrCH ID 9.2.3.2		–	
<b>DL CcTrCH to Modify</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCl Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;TPC CcTrCH List</b>		0 to <maxno CcTrCH>		List of uplink CcTrCH which provide TPC	–	
>>TPC CcTrCH ID	M		CcTrCH ID 9.2.3.3		–	
<b>DL CcTrCH to Delete</b>		0..<maxno of CcTrCHs>			EACH	notify
>CcTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
<b>DCHs to Add</b>		0..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	C-CoordDCH		9.2.1.46A		–	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCHs to Modify</b>		0..<maxno ofDSCHs>			GLOBAL	reject
>DSCH ID	M				–	
>CCTrCH Id	O			DL CCTrCH in which the DSCH is mapped.	–	
>TrCh Source Statistics Descriptor	O				–	
>Transport Format Set	O				–	
>Allocation/Retention Priority	O				–	
>Scheduling Priority Indicator	O				–	
>BLER	O		9.2.1.4		–	
<b>DSCHs to Add</b>		0..<maxno			GLOBAL	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
		<i>ofDSCHs</i> >				
>DSCH ID	M				–	
>CCTrCH Id	M			DL CCTrCH in which the DSCH is mapped.	–	
>TrCh Source Statistics Descriptor	M					
>Transport Format Set	M					
>Allocation/Retention Priority	M					
>Scheduling Priority Indicator	M					
>BLER	M		9.2.1.4		–	
<b>DSCHs to Delete</b>		0..<maxno ofDSCHs>			GLOBAL	reject
>DSCH ID	M				–	
<b>USCHs to Modify</b>		0..<maxno ofUSCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH Id	O			UL CCTrCH in which the USCH is mapped.	–	
>TrCh Source Statistics Descriptor	O				–	
>Transport Format Set	O				–	
>Allocation/Retention Priority	O				–	
>Scheduling Priority Indicator	O				–	
>BLER	O		9.2.1.4		–	
<b>&gt;RB Info</b>		1 to <maxno of RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>USCHs to Add</b>		0..<maxno ofUSCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH Id	M			UL CCTrCH in which the USCH is mapped.	–	
>TrCh Source Statistics Descriptor	M				–	
>Transport Format Set	M				–	
>Allocation/Retention Priority	M				–	
>Scheduling Priority Indicator	M				–	
>BLER	M		9.2.1.4		–	
<b>&gt;RB Info</b>		1 to <maxno of RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>USCHs to Delete</b>		0..<maxno ofUSCHs>			GLOBAL	reject
>USCH ID	M				–	

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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofRBs	Maximum number of Radio Bearers for one UE.



## 9.1.12 RADIO LINK RECONFIGURATION READY

## 9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		0..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;Downlink Code Information</b>		0..<maxno ofDLCode s>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>&gt;DCH Information Response</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		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
<b>&gt;DSCH to be Added or Modified</b>		0..1			YES	ignore
>>DSCH Information		1 .. <Maxnoof DSCHs>			–	
>>>DSCH ID	M				–	
>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>Binding ID	M				–	
>>>Transport Layer Address	M				–	
>>PDSCH Code Mapping	M			PDSCH code mapping to be used	–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the <i>Secondary CCPCH Slot Format IE</i> <i>Secondary CCPCH Slot Format</i> is equal to any of the values 8 to 17.

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

## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		0..1			YES	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH to be Added</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;UL DPCH to be Modified</b>		0..1			YES	ignore
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		0 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		0 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>UL DPCH to be Deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH to be Added		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>DL Timeslot Information		0 to <maxnoOfTS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>DL Code Information		0 to <maxnoOfDPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>DL DPCH to be Modified		0..1			YES	ignore
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.8A		–	
>>>DL Timeslot Information		0 to <maxnoOfTS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
>>>>DL Code Information		0 to <maxnoOfDPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>DL DPCH to be Deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DCH Information Response		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		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNbMAC-c/shSDULen gth>			–	
>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>USCH to be Added or Modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

## 9.1.14 RADIO LINK RECONFIGURATION FAILURE

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

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for a UE.

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

### 9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		0..<maxno ofDCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
<b>DCHs to Add</b>		0..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.1.46A		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

<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		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCTrCH Information to Modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>UL CCTrCH Information to Delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH Information to Modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>DL CCTrCH Information to Delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxnoof DCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.34	For the UL.	–	
>>BLER	M		9.2.1.34	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	C-CoordDCH		9.2.1.46A		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	

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

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

## 9.1.18 RADIO LINK FAILURE INDICATION

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

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

## 9.1.19 RADIO LINK RESTORE INDICATION

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

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

## 9.1.20 DL POWER CONTROL REQUEST [FDD]

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

Condition	Explanation
Common	This IE is present only if the <i>Power Adjustment Type</i> IE "Adjustment Type" equals is set to 'Common'.
Individual	This IE is present only if the <i>Power Adjustment Type</i> IE "Adjustment Type" equals is set to 'Individual'.
CommonOrIndividual	This IE is present only if the <i>Power Adjustment Type</i> IE "Adjustment Type" equals is set to 'Common' or 'Individual'.

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

## 9.1.21.1 FDD Message

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

Range bound	Explanation
MaxnoofDLcodes	Maximum number of DL Codes for one UE.

## 9.1.27 PAGING REQUEST

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

## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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

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



## 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

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

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

## 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>	M			Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>RL# or #ALL RL#					YES	ignore
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3	TDD only	–	
>>>CHOICE <i>Measurement Availability Indicator</i>	M				–	
>>>>#Measurement Available#					YES	ignore
>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>#Measurement not Available#		NULL			YES	ignore
>RLS# or #ALL RLS#				FDD only	YES	ignore
>>RL Set Information		1..<maxnoofRLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		–	
>>>CHOICE <i>Measurement Availability Indicator</i>	M				–	
>>>>#Measurement Available#					YES	ignore
>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>#Measurement not Available#		NULL				
CFN	O		9.2.1.9	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.

### 9.1.35 COMMON TRANSPORT CHANNEL RESOURCES REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	M		9.2.1.2524		YES	reject
C-ID	O				YES	reject
Transport Bearer Request Indicator	M		9.2.1.61	Request a new transport bearer or to use an existing bearer for the user plane.	YES	reject
Transport Bearer ID	M		9.2.1.60	Indicates the lur transport bearer to be used for the user plane.	YES	reject

## 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

## 9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	O				YES	ignore
<b>FACH Info for UE Selected S-CCPCH</b>		0..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		Scheduling Priority Indicator 9.2.1.51A2 8		–	
>>MAC-c/sh SDU Length		1..<MaxnofMACcshSDUlengthsp erPriority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>FACH Info for DRNC Selected S-CCPCH</b>		0..1			YES	ignore
>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [7]	–	
>DL Scrambling Code	M		9.2.2.8		–	
>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>Multiplexing Position	M		9.2.2.26		–	
>STTD Indicator	M		9.2.2.44		–	
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.51A2 8		–	
>>MAC-c/sh SDU Length		1..<MaxnofMACcshSDUlengthsp erPriority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>RACH Info for DRNC Selected PRACH</b>		0..1			YES	ignore
>Preamble Signatures	M				–	

>RACH Minimum Spreading Factor	M				–	
>Scrambling Code Number	M				–	
>Puncture Limit	M				–	
>RACH Sub channel Numbers	M				–	
URA ID	O				YES	ignore
Multiple URAs Indicator	O				YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		<i>0 .. &lt;MaxRNCi nURA-1&gt;</i>			GLOBAL	ignore
>RNC-Id	M				–	
Transport Layer Address	O		9.2.1.62		YES	ignore
Binding Identity	O		9.2.1.3		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

## 9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	O				YES	ignore
<b>FACH Info for UE Selected S-CCPCHs</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		Scheduling Priority Indicator 9.2.1.51A2 8		–	
<b>&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnoofM ACcshSDU lengthsper Priority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>FACH Info for DRNC Selected group of S-CCPCHs</b>		0..1			YES	ignore
>TFCS	M		9.2.1.63	For DL CCTrCH supporting several Secondary CCPCHs	–	
<b>&gt;Secondary CCPCH</b>	M	1..<MaxnoofS CCPCHs>			GLOBAL	ignore
>>TDD Channelisation Code	M		9.2.2.8		–	
>>Time Slot	M		9.2.1.56		–	
>>Midamble shift and Burst Type	M		9.2.3.4		–	
>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>Repetition Period	M		9.2.3.7		–	
>>Repetition Length	M		9.2.3.6		–	
<b>&gt;&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.51A2 8		–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnoofM ACcshSDU lengthsper Priority>			GLOBAL	ignore
>>>>MAC-c/sh SDU	M		9.2.1.34		–	

Length						
>>>FACH Initial Window Size	M		9.2.1.27		–	
<b>RACH Info for DRNC Selected PRACH</b>		0..1			YES	ignore
>TDD Channelisation Code	M				–	
>Time Slot	M				–	
>PRACH Midamble	O				–	
URA ID	O				YES	ignore
Multiple URAs Indicator	O				YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCi nURA-1>			GLOBAL	ignore
>RNC-Id	M				–	
Transport Layer Address	O		9.2.1.62		YES	ignore
Binding Identity	O		9.2.1.3		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

## 9.1.39 ERROR INDICATION

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

Condition	Explanation
C_ifalone	At least <del>either of the Cause Cause-IE or the Criticality Diagnostics Criticality Diagnostics-IE</del> shall be present.



### 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			<u>OCTET</u> <u>STRING</u> <u>O</u> <u>et</u> <u>etstring</u> (1..4,...)	

## 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>				
>Radio Network Layer				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not elapsed, Number of DL Codes Not Supported, DCH not Supported, DSCH not Supported, USCH not Supported, RACH/FACH/CPCH not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, CM not Supported, Transaction not Supported by Destination Node B, ...)	
>Transport Layer				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
>Protocol				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified, Abstract Syntax Error (Falsely Constructed Message),...)	
>Misc				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

### 9.2.1.7 Cell Individual Offset

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Individual Offset			INTEGER Integer (-20,...,+20)	-20 -> -10dB -19 -> -9.5dB ... +20 -> +10dB

## 9.2.1.24 D-RNTI

The D-RNTI identifies the UE eContext identifier in the DRNC.

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

## 9.2.1.25 D-RNTI Release Indication

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

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

### 9.2.1.26 DRX Cycle Length Coefficient

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

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

### 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 **ERNEDRNC**, as defined in ref. [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
L3 Information			<b>BIT</b> <b>STRINGBit</b> <b>String</b>	The content is defined in ref. [16]

### 9.2.1.37 Measurement ID

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

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



### 9.2.1.41 Multiple URAs Indicator

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

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

### 9.2.1.47 RANAP Relocation Information

This parameter is transparent to the RNSAP. The parameter contains information for the Relocation procedure as defined in [2].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RANAP Relocation Information			<del>BIT</del> <del>STRING</del> <del>Bit</del> <del>String</del>	The contents is defined in ref. [2].

### 9.2.1.48 Report Characteristics

The Report Characteristics, defines how the reporting shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Report Characteristics</b>				
>Report Characteristics Type			ENUMERATED(On Demand, Periodic, Event A, Event B, Event C, Event D, Event E, Event F, ...)	
>Periodic Report Information	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!
>Event A	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,...	
>Event 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,...	
>Event C	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.
>Event D	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.
>Event E	C – Event E			
>>Measurement	M		Measurement	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Threshold 1			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.
>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"

## 9.2.1.50 RNC-Id

This is the identifier of one RNC in UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
➤RNC-Id			INTEGER (0..4095)	

## 9.2.1.53 S-RNTI

The S-RNTI identifies the UE in the SRNC.

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

### 9.2.1.62 Transport Layer Address

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Layer Address			<b>BIT STRING</b> <del>Bit string</del> (1... 160, ...)	



### 9.2.1.63 Transport Format Combination Set (TFCS)

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

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

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

#### Method #2 - Explicit

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>CHOICE DSCH</b>				
>No <del>split in the TFCI</del>				This choice is made if : a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>>>CTFC	M		INTEGER(0..MaxCTFC)	Integer number calculated according to ref. [16].
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>>Gain Factor $\beta_c$	M		INTEGER integer (0..15)	For UL DPCCCH or control part of PRACH in FDD ref. [21].
>>>>>Gain Factor $\beta_D$	M		INTEGER integer (0..15)	For UL DPDCH or data part of PRACH in FDD ref. [21].
>>>>>Reference TFC nr	O		INTEGER integer (0..15)	If this TFC is a reference TFC, this IE indicates the reference number
>>>>>Computed Gain Factors				
>>>>>Reference TFC nr	M		INTEGER integer (0..15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>There is a Split in the TFCI >There is a split in the TFCI				This choice is made if : a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels
>>Transport Format Combination_DCH		1 to <MaxTFCI_1_Comb>		The first instance of the parameter <del>Transport Format Combination_DCH IE</del> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	M		INTEGER integer(0..MaxCTFC)	Integer number calculated according to [16] . The calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling Method				
>>>TFCI Range				
>>>>TFC Mapping on DSCH		1 to <MaxNoTFCIGroups>		
>>>>>Max TFCI(field2) value	M		INTEGER integer(1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies

>>>>>CTFC(field 2)	M		INTEGER integer(0..M axCTFC)	Integer number calculated according to [16]. The calculation of CTFC ignores any DCH transport channels which may be assigned
>>>Explicit				
>>>>>Transport Format Combination_DSCH		1 to <MaxTFCI_2_Comb>		The first instance of the parameter <i>Transport Format Combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>>CTFC(field 2)	M		INTEGER integer(0..M axCTFC)	Integer number calculated according to [16]. The calculation of CTFC ignores any DCH transport channels which may be assigned

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

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

### 9.2.1.64 Transport Format Set

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transport Format Set</b>				
<b>&gt;Dynamic Transport Format Information</b>		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..512)	
>>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE <i>Mmode</i>				
>> <i>TDD</i>				
>>>Transmission Time Interval	C-TTIdynamic	1..<maxTTIcount>	ENUMERATED Enumerated(10, 20, 40, 80,...)	
<b>&gt;Semi-static Transport Format Information</b>				
>>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>Mmode</i>				
>>> <i>TDD</i>				
>>>>2 <sup>nd</sup> Interleaving Mode	M		ENUMERATED 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.
<i>MaxRM</i>	The maximum number that could be set as rate matching attribute for a transport channel.
<i>MaxTTIcount</i>	The amount of different TTI that are possible for that transport format is.

### 9.2.1.65 TrCh Source Statistics Descriptor

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TrCh Source Statistics Descriptor			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

## 9.2.1.66 UARFCN

The UTRA Absolute Radio Frequency Channel Number defines the carrier.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UARFCN			INTEGER (0..16383, ...)	Corresponds to: 0.0Hz.. 3276.6MHz see ref. [6] and ref. [7].

### 9.2.1.71 UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UC-ID</b>		1		
>RNC-Id	M		<del>RNC-Id</del> 9.2.1.50	
>C-Id	M		<del>C-Id</del> 9.2.1.6	



### 9.2.2.A Active Pattern Sequence Information

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN <a href="#">9.2.1.9</a>	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN .
<b>Transmission Gap Pattern Sequence Status</b>		0 to <MaxTGPS>		If the group is not present, none of the pattern sequences are activated.
>TGPSI Identifier	M		<b>INTEGER</b> <b>Integer</b> (1..<MaxTGPS>)	Establish a reference to the compressed mode pattern sequence. Up to <MaxAPS> simultaneous compressed mode pattern sequences can be activated.
>TGPRC	M		<b>INTEGER</b> <b>Integer</b> (0..63)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	M		CFN <a href="#">9.2.1.9</a>	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.

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

### 9.2.2.3A Closed Loop Timing Adjustment Mode

Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Timing Adjustment Mode			ENUMERATED (Offset1, Offset2,...)	According to [10] <a href="#">chapter 7.1</a> : Offset1 = slot(j+1)mod15 Offset2 = slot(j+2)mod15

## 9.2.2.10 DL Power

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

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

## 9.2.2.13 DRAC Control

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

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

9.2.2.26A Number of DL Cchannelisation Codes

This parameter notifies DRNS of the number of DL channelisation codes required ~~in~~ for the Radio Link(s).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Number of DL <u>C</u> channelisation <u>C</u> odes			INTEGER (1..8)	

### 9.2.2.27A PDSCH Code Mapping

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

#### Method #1 - Using code range

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

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

#### Method #2 - Using TFCI range

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

#### Method #3 - Explicit

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

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code	M		INTEGER (0..15)	Scrambling code on which PDSCH is transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code

Choice <i>S</i> signalling <i>M</i> method				
> <i>e</i> Code <i>f</i> Range				
>>PDSCH <i>C</i> code <i>M</i> mapping		1 to <MaxNoCodeGroups>		
>>Spreading <i>F</i> factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	
>> <i>M</i> multi-code <i>I</i> info	M		Integer(1..16)	This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1
>>Code <i>N</i> umber	M		Integer(0..maxCodeNumComp-1)	PDSCH code start, Numbering as described in [16]
>>Code <i>N</i> umber	M		Integer(0..maxCodeNumComp-1)	PDSCH code stop, Numbering as described in [16]
>TFCI <i>R</i> range				
>>DSCH <i>M</i> mapping		1 to <MaxNoTFCIGroups>		
>>>Max TFCI(field2) <i>V</i> value	M		Integer(1..1023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading <i>F</i> factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>> <i>M</i> multi-code <i>I</i> info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code <i>N</i> umber	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [16]
>Explicit				
>>>PDSCH <i>e</i> Code		1 to MaxTFCI_2_Combs		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>>Spreading <i>F</i> factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>> <i>M</i> multi-code <i>I</i> info	M		Integer(1..16)	Semantics as described for this parameter above
>>>>Code <i>N</i> umber	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [16]

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



### 9.2.2.47A Transmission Gap Pattern Sequence Information

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transmission Gap Pattern Sequence Information</b>		1 to <MaxTGPS>		
>TGPSI Identifier	M		INTEGER Integer(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		INTEGER Integer(0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		INTEGER Integer(1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	O		INTEGER Integer(1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		INTEGER Integer(0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		INTEGER Integer(1..144,...)	The duration of transmission gap pattern 1 in frames.
>TGPL2	O		INTEGER Integer(1..144,...)	The duration of transmission gap pattern 2 in frames. If omitted, then TGPL2=TGPL1.
>UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink Compressed Mode Method	C-DL		ENUMERATED Enumerated (puncturing, SF/2, higher layer scheduling, ...)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped.
>Uplink Compressed Mode Method	C-UL		ENUMERATED Enumerated (SF/2, higher layer scheduling, ...)	Method for generating uplink compressed mode gap.
>Downlink Frame Type	M		ENUMERATED Enumerated (A, B)	Defines if frame type 'A' or 'B' shall be used in downlink compressed mode.
>DeltaSIR1	M		INTEGER Integer(0..30)	Delta in UL SIR target value to be set in the DRNS during the compressed frames

				<p>corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase)</p> <p>Step 0.1 dB, Range 0-3dB</p>
>DeltaSIRafter1	M		<p>INTEGER INTEGER (0..30)</p>	<p>Delta in UL SIR target value to be set in the DRNS one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern,.</p> <p>Step 0.1 dB, Range 0-3dB</p>
>DeltaSIR2	O		<p>INTEGER INTEGER (0..30)</p>	<p>Delta in UL SIR target value to be set in the DRNS during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase)</p> <p>When omitted, DeltaSIR2 = DeltaSIR1.</p> <p>Step 0.1 dB, Range 0-3dB</p>
>DeltaSIRafter2	O		<p>INTEGER INTEGER (0..30)</p>	<p>Delta in UL SIR target value to be set in the DRNS one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern.</p> <p>When omitted, DeltaSIRafter2 = DeltaSIRafter1.</p> <p>Step 0.1 dB, Range 0-3dB</p>

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

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

### 9.2.2.47B Transmission Gap Pattern Sequence Information Response

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

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

### 9.2.2.53 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UL Scrambling Code</b>				
>UL Scrambling Code Number	M		INTEGER (0.. $2^{24}-1$ )	
>UL Scrambling Code Length	M		ENUMERATED (Short, Long)	

### 9.2.3.3A Maximum Number of Timeslots per Frame

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Number of Timeslots per Frame			INTEGER (1..14)	

**9.2.3.3B** Maximum number of UL  $P_{\text{physical}}$   $C_{\text{channels}}$  per  $T_{\text{timeslot}}$ 

Defines the maximum number of physical channels per frame that the UE is capable to transmit

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Number of UL Physical $C_{\text{channels}}$ per Timeslot			INTEGER (1..2)	

### 9.2.3.3C Maximum number of DL $P_{\text{physical}}$ $C_{\text{channels}}$ per $F_{\text{frame}}$

Defines the maximum number of physical channels per frame that the UE is capable to receive.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum Number of DL Physical $C_{\text{channels}}$ per Frame			INTEGER (1..224)	



### 9.2.3.4 Midamble Shift and Burst Type

This information element indicates burst type and midamble allocation.

Three different midamble allocation schemes exist:

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

Common midamble: the midamble shift is chosen by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>Burst Type</i> <i>Burst Type</i>				
> <i>Type 1</i> <i>Type-1</i>				
>>Midamble Allocation Mode	M		ENUMERATED Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift	C-UE		INTEGER Integer(0..15)	
> <i>Type 2</i> <i>Type-2</i>				
>>Midamble Allocation Mode	M		ENUMERATED Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift			INTEGER (0..15)	
> <i>Type 3</i> <i>Type-3</i>				UL only
>>Midamble Allocation Mode	M		ENUMERATED Enumerated (Default midamble, UE specific midamble)	
>>Midamble Shift	C-UE		INTEGER Integer(0..15)	
>...				

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

### 9.2.3.10 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 <del>s</del> 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Coding	M		ENUMERATED Enumerated (4, 8, 16, 32,...)	

### 9.3.3 PDU Definitions

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

RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS

<Editor's note: Parts of the module is skipped.>

-- *****
--
-- 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 } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepTDD                  CRITICALITY reject   TYPE DSCH-ModifyList-RL-ReconfPrepTDD        PRESENCE optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepTDD                     CRITICALITY reject   TYPE DSCH-AddList-RL-ReconfPrepTDD          PRESENCE optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepTDD                  CRITICALITY reject   TYPE DSCH-DeleteList-RL-ReconfPrepTDD        PRESENCE optional } |
    { ID id-USCH-ModifyList-RL-ReconfPrepTDD                  CRITICALITY reject   TYPE USCH-ModifyList-RL-ReconfPrepTDD        PRESENCE optional } |
    { ID id-USCH-AddList-RL-ReconfPrepTDD                     CRITICALITY reject   TYPE USCH-AddList-RL-ReconfPrepTDD          PRESENCE optional } |
    { ID id-USCH-DeleteList-RL-ReconfPrepTDD                  CRITICALITY reject   TYPE USCH-DeleteList-RL-ReconfPrepTDD        PRESENCE optional },
    ...
}

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

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

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    tFCI-Coding               TFCI-Coding,
    punctureLimit             PunctureLimit,
    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 {
    cCCTrCH-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 {
    cCCTrCH-ID CCTrCH-ID,
    tFCS TFCS,
    tFCI-Coding TFCI-Coding,
    punctureLimit PunctureLimit,
    cCCTrCH-TPCList CCTrCH-TPCAddList-RL-ReconfPrepTDD,
    iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCCTrCH-ID CCTrCH-ID,
    iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

CCTrCH-TPCAddItem-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,
    cCTrCH-TPCList CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD

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

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

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

DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { 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 {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS              ToAWS              OPTIONAL,
    toAWE              ToAWE              OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID       CCTrCH-ID          OPTIONAL,
    dl-CCTrCH-ID       CCTrCH-ID          OPTIONAL,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS              ToAWS,
    toAWE              ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```



```
DCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD
```

```
DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  ul-CCTrCH-ID          CCTrCH-ID,
  dl-CCTrCH-ID          CCTrCH-ID,
  trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
  ul-TransportformatSet TransportFormatSet,
  dl-TransportformatSet TransportFormatSet,
  ul-BLER               BLER,
  dl-BLER               BLER,
  allocationRetentionPriority AllocationRetentionPriority,
  frameHandlingPriority  FrameHandlingPriority,
  qE-Selector           QE-Selector OPTIONAL,
  -- This IE is present only if DCH is part of set of Coordinated DCHs
  iE-Extensions         ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
```

```
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  iE-Extensions         ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD
```

```
DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  dl-ccTrCHID            CCTrCH-ID OPTIONAL,
  trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
  transportFormatSet     TransportFormatSet OPTIONAL,
  allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
  bLER                   BLER OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```

}

DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-AddItem-RL-ReconfPrepTDD

DSCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-ReconfPrepTDD

DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-ReconfPrepTDD

USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    R#-1972,CR161r2
    uSCH-ID                USCH-ID,
    ul-ccTrCHID            CTrCH-ID OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
    bLER                   BLER OPTIONAL,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-AddItem-RL-ReconfPrepTDD

USCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    ul-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-ReconfPrepTDD

USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationPrepareTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

**<Editor's note: The rest of the module is skipped.>**

<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 271</b>		Current Version: <b>3.3.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team			
For submission to:	<b>TSG RAN #10</b>	for approval	<input checked="" type="checkbox"/>	strategic	<input type="checkbox"/>
list expected approval meeting # here ↑		for information	<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:**

(at least one should be marked with an X)

(U)SIM  ME  UTRAN / Radio  Core Network

**Source:**

R-WG3

**Date:**

November 2000

**Subject:**

Clarification of Assignments of ASN.1 Constants

**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 NBAP specification the assignment of some constants is made in a way that could be clearer, even though it is syntactically correct as it is. This relates to the following ASN.1 Types:

- PrivateIE-ID
- ProcedureID and ProcedureCode
- ProtocolExtensionID
- ProtocolIE-ID

The above ASN.1 Types do not fully rely on the existing ASN.1 definitions (Types defined in the same or other modules).

The assignment of Procedure Codes and IE Ids in the Constants module does not utilise the definitions of Procedure Codes and IE Id respectively in the Common Data Types module. Using the definitions of Procedure Codes and IE Id in the Common Data Types module when assigning values would make the assignments more clear even though it is syntactically correct as it is.

This CR clarifies the above-described issue without changing the transferred bits resulting from the ASN.1 modules.

Consequences if not approved:

If this CR is not approved the ASN.1 modules will be less clear.

**Clauses affected:**

9.3.5 and 9.3.6

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	TS 25.433 CR318
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:



## 9.3.5 Common Definitions

```

-- *****
--
-- Common definitions
--
-- *****

RNSAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    maxPrivateIEs,
    maxProtocolExtensions,
    maxProtocolIEs
FROM RNSAP-Constants;

Criticality ::= ENUMERATED { reject, ignore, notify }

Presence ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID ::= CHOICE {
    local          INTEGER (0..maxPrivateIEs65535),
    global         OBJECT IDENTIFIER
}

ProcedureCode ::= INTEGER (0..255)

ProcedureID ::= SEQUENCE {
    procedureCode ProcedureCode,
    ddMode        ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..maxProtocolExtensions65535)

ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs65535)

TransactionID ::= CHOICE {
    shortTransActionId INTEGER (0..127),
    longTransActionId  INTEGER (0..32767)
}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }

END

```



## 9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

RNSAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM RNSAP-CommonDataTypes;

-- *****
--
-- Elementary Procedures
--
-- *****

id-commonTransportChannelResourcesInitiationFDD      ProcedureCode INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD      ProcedureCode INTEGER ::= 1
id-commonTransportChannelResourcesRelease            ProcedureCode INTEGER ::= 2
id-compressedModeCommandFDD                          ProcedureCode INTEGER ::= 4
id-downlinkPowerControl                              ProcedureCode INTEGER ::= 6
id-downlinkSignallingTransfer                        ProcedureCode INTEGER ::= 7
id-errorIndication                                   ProcedureCode INTEGER ::= 8
id-measurementFailure                                ProcedureCode INTEGER ::= 9
id-measurementInitiation                             ProcedureCode INTEGER ::= 10
id-measurementReporting                              ProcedureCode INTEGER ::= 11
id-measurementTermination                           ProcedureCode INTEGER ::= 12
id-pagingRequest                                    ProcedureCode INTEGER ::= 13
id-physicalChannelReconfiguration                   ProcedureCode INTEGER ::= 14
id-privateMessage                                    ProcedureCode INTEGER ::= 15
id-radioLinkAddition                                ProcedureCode INTEGER ::= 16
id-radioLinkDeletion                                ProcedureCode INTEGER ::= 17
id-radioLinkFailure                                  ProcedureCode INTEGER ::= 18
id-radioLinkRestoration                             ProcedureCode INTEGER ::= 19
id-radioLinkSetup                                    ProcedureCode INTEGER ::= 20
id-srnsRelocationCommit                             ProcedureCode INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit        ProcedureCode INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare       ProcedureCode INTEGER ::= 24

```



```

id-unSynchronisedRadioLinkReconfiguration      ProcedureCode INTEGER ::= 25
id-uplinkSignallingTransferFDD                ProcedureCode INTEGER ::= 26
id-uplinkSignallingTransferTDD                ProcedureCode INTEGER ::= 27

-- *****
--
-- Extension constants
--
-- *****

maxPrivateIEs                                INTEGER ::= 65535
maxProtocolExtensions                        INTEGER ::= 65535
maxProtocolIEs                              INTEGER ::= 65535

-- *****
--
-- Lists
--
-- *****

maxCodeNumComp-1                            INTEGER ::= 255
maxRateMatching                             INTEGER ::= 256
maxNoCodeGroups                             INTEGER ::= 256
maxNoOfDSCHs                                INTEGER ::= 10
maxNoOfRB                                    INTEGER ::= 32
maxNoOfUSCHs                                INTEGER ::= 10
maxNoTFCIGroups                             INTEGER ::= 256
maxNrOfTFCs                                  INTEGER ::= 1024
maxNrOfTFs                                   INTEGER ::= 32
maxNrOfCCTrCHs                              INTEGER ::= 16
maxNrOfDCHs                                 INTEGER ::= 128
maxNrOfDL-Codes                             INTEGER ::= 8
maxNrOfDPCHs                                INTEGER ::= 240
maxNrOfErrors                                INTEGER ::= 256
maxNrOfMACcshSDU-Length                    INTEGER ::= 16
maxNrOfPoints                                INTEGER ::= 15
maxNrOfRLLs                                  INTEGER ::= 16
maxNrOfRLLSets                              INTEGER ::= maxNrOfRLLs
maxNrOfRLLs-1                               INTEGER ::= 15 -- maxNrOfRLLs - 1
maxNrOfRLLs-2                               INTEGER ::= 14 -- maxNrOfRLLs - 2
maxNrOfSCCPCHs                              INTEGER ::= 10
maxNrOfULTs                                 INTEGER ::= 15
maxNrOfDLTs                                 INTEGER ::= 15
maxRNCinURA-1                              INTEGER ::= 15
maxTTI-Count                                INTEGER ::= 4
maxCTFC                                      INTEGER ::= 16777215
maxNrOfNeighbouringRNCs                     INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC                  INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC                  INTEGER ::= 256
maxFACHCountPlus1                           INTEGER ::= 10
maxIBSEG                                     INTEGER ::= 16

```

```

maxTFCI1Combs      INTEGER ::= 512
maxTFCI2Combs      INTEGER ::= 1024
maxTFCI2Combs-1    INTEGER ::= 1023
maxTGPS            INTEGER ::= 6
maxNrOfTS          INTEGER ::= 15
    
```

```

-- *****
--
-- IEs
--
-- *****
    
```

id-AllowedQueuingTime	ProtocolIE-ID INTEGER ::= 4
id-BindingID	ProtocolIE-ID INTEGER ::= 5
id-C-ID	ProtocolIE-ID INTEGER ::= 6
id-C-RNTI	ProtocolIE-ID INTEGER ::= 7
id-CFN	ProtocolIE-ID INTEGER ::= 8
id-CN-CS-DomainIdentifier	ProtocolIE-ID INTEGER ::= 9
id-CN-PS-DomainIdentifier	ProtocolIE-ID INTEGER ::= 10
id-Cause	ProtocolIE-ID INTEGER ::= 11
id-CellItem-PagingRqst	ProtocolIE-ID INTEGER ::= 12
id-CombiningItem-RL-AdditionFailureFDD	ProtocolIE-ID INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD	ProtocolIE-ID INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD	ProtocolIE-ID INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD	ProtocolIE-ID INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD	ProtocolIE-ID INTEGER ::= 19
id-CriticalityDiagnostics	ProtocolIE-ID INTEGER ::= 20
id-D-RNTI	ProtocolIE-ID INTEGER ::= 21
id-D-RNTI-ReleaseIndication	ProtocolIE-ID INTEGER ::= 22
id-DCH-AddList-RL-ReconfPrepFDD	ProtocolIE-ID INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD	ProtocolIE-ID INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD	ProtocolIE-ID INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD	ProtocolIE-ID INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD	ProtocolIE-ID INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID INTEGER ::= 35
id-DCH-ModifyList-RL-ReconfPrepFDD	ProtocolIE-ID INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD	ProtocolIE-ID INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD	ProtocolIE-ID INTEGER ::= 43
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD	ProtocolIE-ID INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	ProtocolIE-ID INTEGER ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	ProtocolIE-ID INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID INTEGER ::= 50

id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 55
id-DL-CodeInformationListIE-RL-AdditionRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 57
id-DL-CodeInformationListIE-RL-SetupFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 58
id-DL-DPCH-Information-RL-ReconfPrepFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 64
id-DLReferencePower	<a href="#">ProtocolIE-ID INTEGER</a> ::= 67
id-DLReferencePowerList-DL-PC-Rqst	<a href="#">ProtocolIE-ID INTEGER</a> ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	<a href="#">ProtocolIE-ID INTEGER</a> ::= 69
id-DRXCycleLengthCoefficient	<a href="#">ProtocolIE-ID INTEGER</a> ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	<a href="#">ProtocolIE-ID INTEGER</a> ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	<a href="#">ProtocolIE-ID INTEGER</a> ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	<a href="#">ProtocolIE-ID INTEGER</a> ::= 73
id-DedicatedMeasurementType	<a href="#">ProtocolIE-ID INTEGER</a> ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 79
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 80
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 81
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 83
id-IMSI	<a href="#">ProtocolIE-ID INTEGER</a> ::= 84
id-L3-Information	<a href="#">ProtocolIE-ID INTEGER</a> ::= 85
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 86
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 87
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 88
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 89
id-AdjustmentPeriod	<a href="#">ProtocolIE-ID INTEGER</a> ::= 90
id-MaxAdjustmentStep	<a href="#">ProtocolIE-ID INTEGER</a> ::= 91
id-MeasurementFilterCoefficient	<a href="#">ProtocolIE-ID INTEGER</a> ::= 92
id-MeasurementID	<a href="#">ProtocolIE-ID INTEGER</a> ::= 93
id-MultipleURAsIndicator	<a href="#">ProtocolIE-ID INTEGER</a> ::= 94
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	<a href="#">ProtocolIE-ID INTEGER</a> ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 99
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 100
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 101
id-PagingArea-PagingRqst	<a href="#">ProtocolIE-ID INTEGER</a> ::= 102
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD	<a href="#">ProtocolIE-ID INTEGER</a> ::= 103

id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD	ProtocolIE-ID INTEGER ::= 104
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD	ProtocolIE-ID INTEGER ::= 105
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD	ProtocolIE-ID INTEGER ::= 106
id-PowerAdjustmentType	ProtocolIE-ID INTEGER ::= 107
id-ProcedureScope-DL-PC-Rqst	ProtocolIE-ID INTEGER ::= 108
id-RANAP-RelocationInformation	ProtocolIE-ID INTEGER ::= 109
id-RL-Information-PhyChReconfRqstFDD	ProtocolIE-ID INTEGER ::= 110
id-RL-Information-PhyChReconfRqstTDD	ProtocolIE-ID INTEGER ::= 111
id-RL-Information-RL-AdditionRqstFDD	ProtocolIE-ID INTEGER ::= 112
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID INTEGER ::= 113
id-RL-Information-RL-DeletionRqst	ProtocolIE-ID INTEGER ::= 114
id-RL-Information-RL-FailureInd	ProtocolIE-ID INTEGER ::= 115
id-RL-Information-RL-ReconfPrepFDD	ProtocolIE-ID INTEGER ::= 116
id-RL-Information-RL-RestoreInd	ProtocolIE-ID INTEGER ::= 117
id-RL-Information-RL-SetupRqstFDD	ProtocolIE-ID INTEGER ::= 118
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID INTEGER ::= 119
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID INTEGER ::= 120
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID INTEGER ::= 121
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID INTEGER ::= 122
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID INTEGER ::= 123
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID INTEGER ::= 124
id-RL-InformationList-RL-DeletionRqst	ProtocolIE-ID INTEGER ::= 125
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID INTEGER ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID INTEGER ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID INTEGER ::= 128
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID INTEGER ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID INTEGER ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD	ProtocolIE-ID INTEGER ::= 131
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID INTEGER ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID INTEGER ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID INTEGER ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD	ProtocolIE-ID INTEGER ::= 135
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID INTEGER ::= 136
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID INTEGER ::= 137
id-RLItem-DM-Rprt	ProtocolIE-ID INTEGER ::= 138
id-RLItem-DM-Rqst	ProtocolIE-ID INTEGER ::= 139
id-RLItem-DM-Rsp	ProtocolIE-ID INTEGER ::= 140
id-RL-ReconfigurationFailure-RL-ReconfFail	ProtocolIE-ID INTEGER ::= 141
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst	ProtocolIE-ID INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd	ProtocolIE-ID INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd	ProtocolIE-ID INTEGER ::= 147
id-RL-SetItem-DM-Rprt	ProtocolIE-ID INTEGER ::= 148
id-RL-SetItem-DM-Rqst	ProtocolIE-ID INTEGER ::= 149
id-RL-SetItem-DM-Rsp	ProtocolIE-ID INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD	ProtocolIE-ID INTEGER ::= 151
id-ReportCharacteristics	ProtocolIE-ID INTEGER ::= 152
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID INTEGER ::= 154
id-S-RNTI	ProtocolIE-ID INTEGER ::= 155

id-SAI	<u>ProtocolIE-ID INTEGER</u> ::= 156
id-SRNC-ID	<u>ProtocolIE-ID INTEGER</u> ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 158
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 162
id-TransportBearerID	<u>ProtocolIE-ID INTEGER</u> ::= 163
id-TransportBearerRequestIndicator	<u>ProtocolIE-ID INTEGER</u> ::= 164
id-TransportLayerAddress	<u>ProtocolIE-ID INTEGER</u> ::= 165
id-UC-ID	<u>ProtocolIE-ID INTEGER</u> ::= 166
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 167
id-UL-CCTrCH-InformationAddItem-RL-ReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 168
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 169
id-UL-CCTrCH-InformationAddList-RL-ReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	<u>ProtocolIE-ID INTEGER</u> ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	<u>ProtocolIE-ID INTEGER</u> ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	<u>ProtocolIE-ID INTEGER</u> ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 182
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 183
id-UL-SIRTarget	<u>ProtocolIE-ID INTEGER</u> ::= 184
id-URA-ID	<u>ProtocolIE-ID INTEGER</u> ::= 185
id-URAIItem-PagingRqst	<u>ProtocolIE-ID INTEGER</u> ::= 186
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 192
id-Active-Pattern-Sequence-Information	<u>ProtocolIE-ID INTEGER</u> ::= 193
id-AdjustmentRatio	<u>ProtocolIE-ID INTEGER</u> ::= 194
id-All-RLItem-DM-Rqst	<u>ProtocolIE-ID INTEGER</u> ::= 195
id-All-RLItem-Set-DM-Rqst	<u>ProtocolIE-ID INTEGER</u> ::= 196
id-CauseLevel-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 197
id-CauseLevel-RL-AdditionFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 198
id-CauseLevel-RL-ReconfFailure	<u>ProtocolIE-ID INTEGER</u> ::= 199
id-CauseLevel-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 200
id-CauseLevel-RL-SetupFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 201
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD	<u>ProtocolIE-ID INTEGER</u> ::= 202
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 203
id-DCH-InformationResponseListIE-RL-ReconfRsp	<u>ProtocolIE-ID INTEGER</u> ::= 204
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 207

id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 209
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 210
id-DL-CodeInformationListIE-RL-ReconfResp	<u>ProtocolIE-ID INTEGER</u> ::= 211
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 214
id-DSCH-AddList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 215
id-DSCH-Add-RL-ReconfPrepFDD	<u>ProtocolIE-ID INTEGER</u> ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD	<u>ProtocolIE-ID INTEGER</u> ::= 218
id-DSCH-InformationItem-RL-SetupRqstFDD	<u>ProtocolIE-ID INTEGER</u> ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 221
id-DSCH-InformationList-RL-SetupRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 222
id-DSCH-InformationResponseItem-RL-SetupRspFDD	<u>ProtocolIE-ID INTEGER</u> ::= 223
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 224
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 225
id-DSCH-Information-RL-SetupRqstFDD	<u>ProtocolIE-ID INTEGER</u> ::= 226
id-DSCH-ModifyList-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 227
id-DSCH-Modify-RL-ReconfPrepFDD	<u>ProtocolIE-ID INTEGER</u> ::= 228
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD	<u>ProtocolIE-ID INTEGER</u> ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	<u>ProtocolIE-ID INTEGER</u> ::= 230
id-GA-AccessPointPosition	<u>ProtocolIE-ID INTEGER</u> ::= 231
id-GA-Cell	<u>ProtocolIE-ID INTEGER</u> ::= 232
id-GeneralCauseItem-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 233
id-GeneralCauseItem-RL-AdditionFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 234
id-GeneralCauseItem-RL-ReconfFailure	<u>ProtocolIE-ID INTEGER</u> ::= 235
id-GeneralCauseItem-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 236
id-GeneralCauseItem-RL-SetupFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 237
id-MeasurementAvailableItem-DedicatedMeasurementReport	<u>ProtocolIE-ID INTEGER</u> ::= 238
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	<u>ProtocolIE-ID INTEGER</u> ::= 239
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 240
id-Neighbouring-CellInformationItem-RL-AdditionRsp	<u>ProtocolIE-ID INTEGER</u> ::= 241
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD	<u>ProtocolIE-ID INTEGER</u> ::= 242
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 243
id-RLItem-RL-FailureInd	<u>ProtocolIE-ID INTEGER</u> ::= 244
id-RLItem-RL-RestoreInd	<u>ProtocolIE-ID INTEGER</u> ::= 245
id-RL-SetItem-RL-FailureInd	<u>ProtocolIE-ID INTEGER</u> ::= 246
id-RL-SetItem-RL-RestoreInd	<u>ProtocolIE-ID INTEGER</u> ::= 247
id-RLSpecificCauseItem-RL-AdditionFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 248
id-RLSpecificCauseItem-RL-AdditionFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 249
id-RLSpecificCauseItem-RL-ReconfFailure	<u>ProtocolIE-ID INTEGER</u> ::= 250
id-RLSpecificCauseItem-RL-SetupFailureFDD	<u>ProtocolIE-ID INTEGER</u> ::= 251
id-RLSpecificCauseItem-RL-SetupFailureTDD	<u>ProtocolIE-ID INTEGER</u> ::= 252
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD	<u>ProtocolIE-ID INTEGER</u> ::= 253
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD	<u>ProtocolIE-ID INTEGER</u> ::= 254
id-Transmission-Gap-Pattern-Sequence-Information	<u>ProtocolIE-ID INTEGER</u> ::= 255
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	<u>ProtocolIE-ID INTEGER</u> ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	<u>ProtocolIE-ID INTEGER</u> ::= 258

**Release 1999**

id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD  
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD  
id-USCH-AddList-RL-ReconfPrepTDD  
id-USCH-DeleteList-RL-ReconfPrepTDD  
id-USCH-InformationListIE-RL-AdditionRspTDD  
id-USCH-InformationListIEs-RL-SetupRspTDD  
id-USCH-InformationList-RL-SetupRqstTDD  
id-USCH-ModifyList-RL-ReconfPrepTDD  
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD  
id-DL-Physical-Channel-Information-RL-SetupRqstTDD  
id-UL-Physical-Channel-Information-RL-SetupRqstTDD  
id-ClosedLoopModel1-SupportIndicator  
id-ClosedLoopMode2-SupportIndicator  
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD  
id-STTD-SupportIndicator

END

**12**

ProtocolIE-ID INTEGER ::= 259  
ProtocolIE-ID INTEGER ::= 260  
ProtocolIE-ID INTEGER ::= 261  
ProtocolIE-ID INTEGER ::= 262  
ProtocolIE-ID INTEGER ::= 263  
ProtocolIE-ID INTEGER ::= 264  
ProtocolIE-ID INTEGER ::= 265  
ProtocolIE-ID INTEGER ::= 266  
ProtocolIE-ID INTEGER ::= 267  
ProtocolIE-ID INTEGER ::= 268  
ProtocolIE-ID INTEGER ::= 269  
ProtocolIE-ID INTEGER ::= 270  
ProtocolIE-ID INTEGER ::= 271  
ProtocolIE-ID INTEGER ::= 272  
ProtocolIE-ID INTEGER ::= 273  
ProtocolIE-ID INTEGER ::= 274  
ProtocolIE-ID INTEGER ::= 275  
ProtocolIE-ID INTEGER ::= 276  
ProtocolIE-ID INTEGER ::= 277  
ProtocolIE-ID INTEGER ::= 278  
ProtocolIE-ID INTEGER ::= 279

**3G TS 25.423 version 3.3.0**



CR-Form-v3

## CHANGE REQUEST

⌘ **25.423 CR 274** ⌘ rev **R1** ⌘ Current version: **3.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Clarification of SAI Definition		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘	<b>Date:</b>	⌘ 21 November 2000
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Release 99
	<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification)		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

### R-WG3

<b>Reason for change:</b>	⌘ The current definition of SAI is ambiguous, and the definition needs aligning with the clarification for 23.003, which distinguishes between PS/CS and BC domains.
<b>Summary of change:</b>	⌘ Removal of word "uniquely", and addition of statement with regard to which SAI shall be used.
<b>Consequences if not approved:</b>	⌘ Different implementations of RNC will exhibit different behaviours, making multi-vendor interworking unpredictable or impossible.

<b>Clauses affected:</b>	⌘ 9.2.1.52		
<b>Other specs affected:</b>	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.413 CR234, 25.419 CR029, 23.003 CRxxx
<b>Other comments:</b>	⌘ 23.003 CR number is not yet assigned.		

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.



### 9.2.1.52 Service Area Identifier (SAI)

This information element is used to **uniquely** identify an area consisting of one or more cells belonging to the same Location Area. Such an area is called a Service Area and can be used for indicating the location of a UE to the CN. For this protocol, only a Service Areas that **is**are defined to be applicable to the PS and CS domains shall be used.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<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)	



## 9.2.1.19 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR Value	C <i>MeasValue</i>		INTEGER(0. .63)	According to mapping in ref. [23] and [24]
>SIR Error Value	C <i>MeasValue</i>		INTEGER(0. .125)	According to mapping in [23], (FDD only)
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0. .127)	According to mapping in ref. [23] and [24]
>RSCP	C <i>MeasValue</i>		INTEGER(0. .81)	According to mapping in ref. [24] (TDD only)
>Rx Timing Deviation	C <i>MeasValue</i>		INTEGER(0. .2047)	According to mapping in [24] [TDD only]
>Round Trip Time	C <i>MeasValue</i>		INTEGER(0. <del>.819132767</del> )	According to mapping in [23] [FDD only]

Condition	Explanation
<i>MeasValue</i>	Only one measurement value can be present at the same time.

## 9.2.1.38 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..62)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 62: 31dB
SIR Error	<i>C – Threshold</i>		INTEGER(0..124)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 124: 62 dB (FDD only)
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..112,...)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 112: 56 dB
RSCP	<i>C – Threshold</i>		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0.. <del>819032766</del> )	0: 0 chips 1: <del>0.25-0.0625</del> chips 2: <del>0.5-0.1250</del> chips ... <del>819032766: 2047.52047,875</del> chips (FDD only)

Condition	Explanation
<i>Threshold</i>	Only one measurement threshold can be present at the same time.

## 9.2.1.39 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E or F.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..63)	According to mapping in ref. [23] and [24].
SIR Error	<i>C – Threshold</i>		INTEGER(0..125)	According to mapping in [23], (FDD only)
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..127)	According to mapping in ref. [23] and [24].
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in ref. [24] (TDD only)
Rx Timing Deviation	<i>C – Threshold</i>		INTEGER(0..2047)	According to mapping in [24] (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0.. <del>819132767</del> )	According to mapping in [23] (FDD only)

Condition	Explanation

<i>Threshold</i>	Only one measurement threshold can be present at the same time.
------------------	---

## 9.3.4 Information Element Definitions

```

-- *****
--
-- Information Element Definitions
--
-- *****

RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

.

-- R

RAC ::= OCTET STRING (SIZE(1))

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

RB-Identity ::= INTEGER (0..31)

RefTFNNumber ::= INTEGER (0..15)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64
}

RepetitionNumber ::= INTEGER (1..256)

ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          Periodic,
    eventA            EventA,
    eventB            EventB,
    eventC            EventC,
    eventD            EventD,
    eventE            EventE,
    eventF            EventF,
    ...
}

ReportPeriodicity ::= CHOICE {
    ten-msec          INTEGER (1..6000,...),
-- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
-- E.g. value 6000 means 60000ms (i.e. 1min)
-- Unit ms, Step 10ms
    min              INTEGER (1..60,...)
-- Unit min, Step 1min
}

RL-ID ::= INTEGER (0..31)

RL-Set-ID ::= INTEGER (0..31)

RNC-ID ::= INTEGER (0..4095)

| Round-Trip-Time-IncrDecrThres ::= INTEGER(0..819032766)
| Round-Trip-Time-Value ::= INTEGER(0..819132767)

```

```
| -- According to mapping in 25-215\[23\]  
RSCP-Value ::= INTEGER (0..81)  
-- According to mapping in [14]  
  
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)  
  
RSSI          ::= INTEGER (0..621)  
-- According to mapping in [11]  
  
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)
```

## CHANGE REQUEST

⌘ **25.423 CR 276** ⌘ rev **-** ⌘ Current version: **3.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Dated References for Mapping of Measurements in RNSAP		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘	<b>Date:</b>	⌘ November 2000
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ R99
<p><i>Use one of the following categories:</i></p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p><i>Use one of the following releases:</i></p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>	

R-WG3

<b>Reason for change:</b>	⌘ To avoid compatibility problems the mapping of measurement values shall be fixed to a dated version of 25.123 and 25.133 (rather than a non-dated reference).
<b>Summary of change:</b>	⌘ The version of the specifications 25.123 and 25.133 has been fixed to v3.3.x.  Note that the specifications 25.123 and 25.133 are only referred to for mapping or accuracy of measurements.
<b>Consequences if not approved:</b>	⌘ The specifications 25.123 and 25.133 can never be changed with regards to the current mapping of measurements without risking to jeopardise the backwards compatibility of the RNSAP specification, i.e. changes in 25.123 or 25.133 may cause inter-working problems (unless RAN WG4 takes responsibility for the RNSAP backward and forward compatibility).

<b>Clauses affected:</b>	⌘		
<b>Other specs affected:</b>	⌘ <input checked="" type="checkbox"/> Other core specifications	⌘ TS 25.433 CR321	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
<b>Other comments:</b>	⌘		

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be



downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

---

## 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] 3GPP TS 23.003: "Numbering, addressing and identification".
- [2] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3GPP TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] (void)
- [6] 3GPP TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception"
- [7] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3GPP TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)"
- [10] UMTS 25.214: "Physical Layer Procedures (FDD)".
- [11] 3GPP TS 25.215: "Physical Layer – Measurements (FDD)".
- [12] 3GPP TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3GPP TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3GPP TS 25.225: "Physical Layer – Measurements (TDD)".
- [15] 3GPP TS 25.304: "UE Procedures in Idle Mode"
- [16] 3GPP TS 25.331: "RRC Protocol Specification".
- [17] 3GPP TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] X.680 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (12/97): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [20] ITU-T Recommendation X.691 (12/97): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [21] 3GPP TS 25.213: " Spreading and modulation (FDD)"
- [22] 3GPP TS 25.224: " Physical Layer Procedures (TDD)"
- [23] 3GPP TS 25.133 [\(V3.3\)](#): "Requirements for support of Radio Resource management (FDD)".
- [24] 3GPP TS 25.123 [\(V3.3\)](#): " Requirements for support of Radio Resource management (TDD)".

- [25] 3GPP TS 23.003: "Universal Graphical Area Description (GAD)".
- [26] 3GPP TS 25.302: "Services Provided by the Physical Layer".
- [27] 3GPP TS 25.213: "Spreading and modulation (FDD)".

<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</b>	<b>CR</b>	<b>277</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>RAN #10</b> <small>list expected approval meeting # here ↑</small>	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	Current Version: <b>3.3.0</b>  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: <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:**    20 Nov 2000

**Subject:**    Introduction of extension of ddMode

**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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**    This CR proposes to make the DdMode extensible as decided in RAN3#16 meeting.  
Consequences if not accepted:  
 DdMode is not flexible and cannot support future function..

**Clauses affected:**    9.2.1.40, 9.3.5

<b>Other specs affected:</b>	Other 3G core specifications <input checked="" 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: 25.433: CR322 → 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.

## 9.2.1.40 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<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 Command, 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)	

## 9.3.5 Common Definitions

```

-- *****
--
-- Common definitions
--
-- *****

RNSAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

Presence        ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID    ::= CHOICE {
    local          INTEGER (0..65535),
    global         OBJECT IDENTIFIER
}

ProcedureCode   ::= INTEGER (0..255)

ProcedureID ::= SEQUENCE {
    procedureCode   ProcedureCode,
    ddMode          ENUMERATED { tdd, fdd, common, ... }
}

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID   ::= INTEGER (0..65535)

TransactionID   ::= CHOICE {
    shortTransActionId  INTEGER (0..127),
    longTransActionId   INTEGER (0..32767)
}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome,
outcome }

END

```

CR-Form-v3

## CHANGE REQUEST

⌘ **TS 25.423 CR 278** ⌘ rev **1** ⌘ Current version: **3.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘	Extensibility Correction for DCH Information Response Group IE	
<b>Source:</b>	⌘	R-WG3	
<b>Work item code:</b>	⌘		<b>Date:</b> ⌘ 21-Nov-00
<b>Category:</b>	⌘	<b>F</b>	<b>Release:</b> ⌘ R99
		<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (Addition of feature),</p> <p><b>C</b> (Functional modification of feature)</p> <p><b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>	<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)</p> <p><b>R96</b> (Release 1996)</p> <p><b>R97</b> (Release 1997)</p> <p><b>R98</b> (Release 1998)</p> <p><b>R99</b> (Release 1999)</p> <p><b>REL-4</b> (Release 4)</p> <p><b>REL-5</b> (Release 5)</p>

R-WG3

<b>Reason for change:</b>	⌘	Making extensible the content of <i>DCH information Response Group IE</i> within the context of coordinated DCHs.
<b>Summary of change:</b>	⌘	<i>Binding ID IE</i> and <i>Transport Layer Address IE</i> has been made optional within the <i>DCH Information Response IE</i> group.
<b>Consequences if not approved:</b>	⌘	R1: Rewording of the procedure text to avoid confusion  The addition of new DCH characteristics to be reported for each RL within an RLS would not be possible, thus impairing the extensibility of the RNSAP protocol.

<b>Clauses affected:</b>	⌘	8.3.4.1, 8.3.7.1, 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1, 9.1.12.1, 9.1.12.2, 9.1.17, 9.3.3
<b>Other specs affected:</b>	⌘	<input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications ⌘ <input type="checkbox"/> O&M Specifications ⌘
<b>Other comments:</b>	⌘	

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.



## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

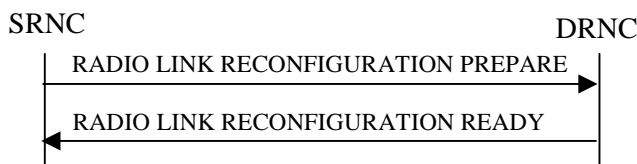
### 8.3.4.1 General

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 a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new *ToAWE* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a DCHs to *Add* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].]

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]

[FDD - The DRNS shall use the *TFCS IE* for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - The DRNS shall use the *TFCS IE* for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *Diversity Mode IE*, the DRNS shall apply diversity according to the given value.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure IE*, group the DRNS shall apply the new Uplink DPCCH Structure to the new configuration.]

FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target IE*, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS IE*, *TFCI coding IE*, *Puncture limit IE*, or *TPC CCTrCH ID IEs* the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period IE*, *Repetition Length IE*, *TDD DPCH Offset IE* or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of *Midamble shift and Burst Type IE*, *Time Slot IE*, *TFCI presence IE* or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code IE* was modified.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added, the DRNC shall include this CCTrCH in the new configuration.]

[TDD – If the DRNC has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message.]

#### [TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

If the requested modifications are allowed by the DRNS, and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s) it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION READY message.

In case of a DCH requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE *DCH Information Response* IE group.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

#### **Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNS shall include the *Transmission Gap Pattern Sequence Information Response* IE to the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

#### **DSCH Addition/Modification/Deletion:**

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE of the DSCHs being added or modified.

#### **USCH Addition/Modification/Deletion [TDD]**

The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address IE* and the *Binding ID IE* of the USCHs being added or modified.

## 8.3.7 Unsynchronised Radio Link Reconfiguration

### 8.3.7.1 General

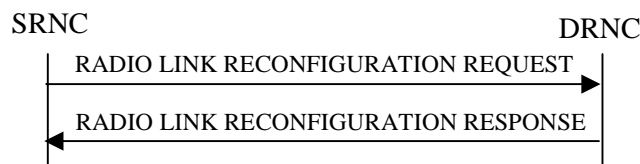
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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 a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new *ToAWS* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new *ToAWE* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a DCHs to *Add* IE with multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the DCHs to *Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can all of them in the new configuration.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].]

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE and the *Reference to System Information blocks* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS* IE for the UL, the DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

**[TDD - UL/DL CCTrCH Modification]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes UL/DL CCTrCH to be modified the DRNC shall apply the included *TFCS* IE as the new value.]

**[TDD – UL/DL CCTrCH Deletion]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

If the requested modifications are allowed by the DRNS, the DRNS has successfully allocated the required resources, and changed to the new configuration it shall respond to the SRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the IEs *Maximum Uplink SIR* and *Minimum Uplink SIR* for each Radio Link in the RADIO LINK RECONFIGURATION RESPONSE message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

In case of a DCH requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE *DCH Information Response* IE group.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the DCH in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

**Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNS shall include the *DL Code Information* IE group in the RADIO LINK RECONFIGURATION RESPONSE message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]



## 9.1.4 RADIO LINK SETUP RESPONSE

### 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>RSSI	M		9.2.2.35A		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;DL Code Information</b>		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>Diversity Indication	C-NotFirstRL		9.2.2.7		–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or 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		9.2.1.16		–	
>>>>Binding ID	MO		9.2.1.3		–	
>>>>Transport Layer Address	MO		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighbours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

<b>Range bound</b>	<b>Explanation</b>
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<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		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>DL Timeslot Information		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>DL Code Information		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	<u>MO</u>		9.2.1.3		–	
>>Transport Layer Address	<u>MO</u>		9.2.1.62		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighbo uringRNCs >			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighours&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE



## 9.1.5 RADIO LINK SETUP FAILURE

## 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1...<maxno ofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>Successful RL Information Response		0..<maxno ofRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>URA ID	M		9.2.1.70		–	
>>>SAI	M		9.2.1.52		–	
>>>RSSI	M		9.2.2.35A		–	
>>>DL Code Information		1..<maxno ofDL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>Transmission Gap Pattern Sequence Information Response	O		9.2.2.47B		–	
>>>Diversity Indication	M		9.2.2.7		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>>>Non Combining 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		9.2.1.16		–	
>>>>>>Binding ID	<del>MO</del>		9.2.1.3		–	
>>>>>>Transport Layer Address	<del>MO</del>		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				-	
>>>Maximum Allowed	M		9.2.1.35		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
UL Tx Power						
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>>>DSCH Information Response		<i>0..&lt;maxno ofDSCHs&gt;</i>			GLOBAL	ignore
>>>>DSCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>Neighbouring Cell Information	O	<i>0..&lt;maxno of neighbourin gRNCs&gt;</i>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>>Per FDD Cell Information		<i>0..&lt;maxno ofFDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>>>Per TDD Cell Information		<i>0..&lt;maxno ofTDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH	O		9.2.1.23		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Constant Value						
>>>>PCCPCH Power	O		9.2.1.43		-	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell

## 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>RSSI	M		9.2.2.35A		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> <b>DL Code Information</b>		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>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		9.2.1.16		–	
>>>>Binding ID	<del>M</del> O		9.2.1.3		–	
>>>>Transport Layer Address	<del>M</del> O		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>urs&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofU Lts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf D PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		1 to <maxnoOf S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		1 to <maxnoOf D PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Channelisation Code						
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>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		9.2.1.16		–	
>>>>Binding ID	<del>M</del> MO		9.2.1.3		–	
>>>>Transport Layer Address	<del>M</del> MO		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULength>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE <i>Diversity Indication</i>					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>>CHOICE <i>Diversity Indication</i>					–	
>>>Non					–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<i>combining</i>						
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoofn neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbo urs&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbo urs&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

## 9.1.8 RADIO LINK ADDITION FAILURE

## 9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>>Successful RL Information Response		0..<maxnoof RLS-2>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>URA ID	M		9.2.1.70		–	
>>>SAI	M		9.2.1.52		–	
>>>RSSI	M		9.2.2.35A		–	
>>>DL Code Information		1..<maxnoof DL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>Transmission Gap Pattern Sequence Information Response	O		9.2.2.47B		–	
>>>Diversity Indication	M		9.2.2.7		YES	ignore
>>>CHOICE <i>diversity indication</i>						
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>>>>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		9.2.1.16		–	
>>>>>>Binding ID	<del>M</del> O		9.2.1.3		–	
>>>>>>Transport Layer Address	<del>M</del> O		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				–	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7			
>>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>>STTD Support Indicator	O		9.2.2.45			
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
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

## 9.1.12 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		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;Downlink Code Information</b>		<i>0..&lt;maxno ofDLCode s&gt;</i>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>&gt;DCH Information Response</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		9.2.1.16		–	
>>Binding ID	<del>MO</del>		9.2.1.3		–	
>>Transport Layer Address	<del>MO</del>		9.2.1.62		–	
<b>&gt;DSCH to be Added or Modified</b>		0..1			YES	ignore
<b>&gt;&gt;DSCH Information</b>		1 .. <Maxnoof DSCHs>			–	
>>>DSCH ID	M				–	
<b>&gt;&gt;&gt;Priority Indicator</b>		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
<b>&gt;&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>Binding ID	M				–	
>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		0..1			YES	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH to be added</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;UL DPCH to be modified</b>		0..1			YES	ignore
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		0 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		0 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>&gt;&gt;UL DPCH to be deleted</b>		<i>0..&lt;maxnoof DPCHs&gt;</i>			GLOBAL	ignore
>>>DPCH ID	M				–	
<b>&gt;DL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH to be added</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		<i>0 to &lt;maxnoOfT S&gt;</i>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		<i>0 to &lt;maxnoOfD PCH&gt;</i>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;DL DPCH to be modified</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		<i>0 to &lt;maxnoOfT S&gt;</i>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		<i>0 to &lt;maxnoOfD PCH&gt;</i>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;DL DPCH to be deleted</b>		<i>0..&lt;maxnoof DPCHs&gt;</i>			GLOBAL	ignore
>>>DPCH ID	M				–	
<b>&gt;DCH Information Response</b>		<i>0..&lt;maxnoof DCHs&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		9.2.1.16		–	
>>Binding ID	<del>M</del> O		9.2.1.3		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Layer Address	<u>MO</u>		9.2.1.62		–	
>DSCH to be Added or Modified		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNbM AC-c/shSDULen gth>			–	
>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>USCH to be Added or Modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.
MaxnoofTS	Maximum number of Timeslots for a UE

## 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		<i>0..&lt;maxno ofRLs&gt;</i>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;DCH Information Response</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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	<u>MO</u>		9.2.1.3		–	
>>Transport Layer Address	<u>MO</u>		9.2.1.62		–	
<b>&gt;DL Code Information</b>		0.. <maxnoof DLCodes			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>Transmission Gap Pattern Sequence Information Response	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

### 9.3.3 PDU Definitions

```

***** Omitted ASN.1 *****

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer  {{RadioLinkSetupResponseFDD-
Extensions}}
    ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI
    PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier
    PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier
    PRESENCE optional } |
    { ID id-RL-InformationResponseList-RL-SetupRspFDD
    PRESENCE mandatory } |
    { ID id-UL-SIRTarget
    PRESENCE optional } |
    { ID id-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
    PRESENCE mandatory },
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    rL-Set-ID                  RL-Set-ID,
    uRA-ID                     URA-ID,
    sAI                        SAI,
    gA-Cell                    GA-Cell OPTIONAL,
    gA-AccessPointPosition     GA-AccessPointPosition OPTIONAL,
    rSSI                        RSSI,
    secondary-CCPCH-Info       Secondary-CCPCH-Info-RL-SetupRspFDD OPTIONAL,
    dl-CodeInformation          DL-CodeInformationList-RL-SetupRspFDD,
    diversityIndication         DiversityIndication-RL-SetupRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
    -- indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator      SSdT-SupportIndicator,
    maxUL-SIR                  UL-SIR,
    minUL-SIR                  UL-SIR,
    closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    maximumDLTxPower           DL-Power,
    minimumDLTxPower           DL-Power,
    dSCHInformationResponse     DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
    neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset         FDD-S-CCPCH-Offset,

```

```

dl-ScramblingCode                DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
dl-TFCS                           TFCS,
secondaryCCPCH-SlotFormat         SecondaryCCPCH-SlotFormat,
tFCI-Presence                     tFCI-Presence    OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
multiplexingPosition              MultiplexingPosition,
sTTD-Indicator                    sTTD-Indicator,
fACH-PCH-InformationList          FACH-PCH-InformationList-RL-SetupRspFDD,
schedulingInformation             SchedulingInformation-RL-SetupRspFDD,
iE-Extensions                     ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-SetupRspFDD

FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
transportFormatSet               TransportFormatSet,
iE-Extensions                    ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
...
}

FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
iB-SG-Rep                        IB-SG-REP,
segmentInformationList           SegmentInformationList-RL-SetupRspFDD,
iE-Extensions                    ProtocolExtensionContainer { { SchedulingInformation-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
...
}

SchedulingInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SegmentInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-
SetupRspFDD

SegmentInformationItem-RL-SetupRspFDD ::= SEQUENCE {
iB-SG-POS                        IB-SG-POS,
iE-Extensions                    ProtocolExtensionContainer { { SegmentInformationItem-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
...
}

SegmentInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-SetupRspFDD

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
dl-ScramblingCode                DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
transmission-Gap-Pattern-Sequence-Information-Response  Transmission-Gap-Pattern-
Sequence-Information-Response    OPTIONAL,
iE-Extensions                     ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
...
}

DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-
SetupRspFDD }}

```

```

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-SetupRspFDD CRITICALITY ignore TYPE
DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory }
}

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
  combining Combining-RL-SetupRspFDD,
  nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupRspFDD,
  ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { 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 ::= {
  ...
}

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningOrFirstRLIE-RL-
SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD CRITICALITY ignore TYPE
NonCombiningOrFirstRLItem-RL-SetupRspFDD PRESENCE mandatory }
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-InformationResponse-RL-SetupRspFDD DCH-InformationResponseList-RL-SetupRspFDD
OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-SetupRspFDD

DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-
InformationResponseIE-RL-SetupRspFDD }}

DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-
InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory }
}

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dschInformationList DSCHInformationList-RL-SetupRspFDD,
  pdSCHCodeMapping PDSCHCodeMapping,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-
SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCHInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-
SetupRspFDD

DSCHInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspFDD,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspFDD-ExtIEs}
} OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD

PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator  SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths        MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
    iE-Extensions                ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-
SDU-Length

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF
ProtocolIE-Single-Container { { Neighbouring-CellInformationItemIE-RL-SetupRsp } }

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
    { 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,
}

```



```

    sTTD-SupportIndicator          STTD-SupportIndicator  OPTIONAL,
    closedLoopModel1-SupportIndicator  ClosedLoopModel1-SupportIndicator  OPTIONAL,
    closedLoopMode2-SupportIndicator  ClosedLoopMode2-SupportIndicator  OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 -- ,
    block-STTD-Indicator            Block-STTD-Indicator,
    cellIndividualOffset            CellIndividualOffset  OPTIONAL,
    dPCHConstantValue              DPCHConstantValue  OPTIONAL,
    pCCPCH-Power                    PCCPCH-Power          OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-
SetupRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

RadioLinkSetupResponseTDD ::= SEQUENCE {
    protocolIEs                    ProtocolIE-Container    {{RadioLinkSetupResponseTDD-IEs}},
    protocolExtensions              ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-
Extensions}}
    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-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics
PRESENCE optional },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                          RL-ID,
    uRA-ID                          URA-ID,
    sAI                              SAI,
    gA-Cell                          GA-Cell          OPTIONAL,
    gA-AccessPointPosition            GA-AccessPointPosition  OPTIONAL,
    ul-InterferencePerTimeslot        UL-InterferenceList-RL-SetupRspTDD,

```

```

maxUL-SIR                UL-SIR,
minUL-SIR                UL-SIR,
maximumAllowedULTxPower  MaximumAllowedULTxPower,
maximumDLTxPower        DL-Power,
minimumDLTxPower        DL-Power,
timingAdjustmentRequired TimingAdjustmentRequired,
ul-CCTrCHInformation     UL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dl-CCTrCHInformation     DL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dCH-InformationResponse  DCH-InformationResponseList-RL-SetupRspTDD,
dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
usch-InformationResponse  USCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp
OPTIONAL,
-- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
iE-Extensions           ProtocolExtensionContainer { {RL-InformationResponse-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-
SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot          TimeSlot,
    iSCP              UL-TimeslotISCP,
    iE-Extensions     ProtocolExtensionContainer { { UL-InterferenceItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-
CCTrCHInformationListIEs-RL-SetupRspTDD} }

UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD  CRITICALITY ignore TYPE UL-
CCTrCHInformationListIE-RL-SetupRspTDD  PRESENCE mandatory }
}

UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-
CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    ul-DPCH-Information  UL-DPCH-InformationList-RL-SetupRspTDD  OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-
InformationListIEs-RL-SetupRspTDD} }

UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD  CRITICALITY ignore TYPE UL-DPCH-
InformationItem-RL-SetupRspTDD  PRESENCE mandatory }
}

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod    RepetitionPeriod,
    repetitionLength    RepetitionLength,
    tDD-DPCHOffset      TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-SetupRspTDD  UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions       ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-
InformationItem-RL-SetupRspTDD

UL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationList-RL-SetupRspTDD    UL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationItem-RL-SetupRspTDD

UL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-
CCTrCHInformationListIEs-RL-SetupRspTDD} }

DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE DL-
CCTrCHInformationListIE-RL-SetupRspTDD    PRESENCE mandatory }
}

DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-
CCTrCHInformationItem-RL-SetupRspTDD

DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-Information        DL-DPCH-InformationList-RL-SetupRspTDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-
InformationListIEs-RL-SetupRspTDD} }

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD    CRITICALITY ignore TYPE DL-DPCH-
InformationItem-RL-SetupRspTDD    PRESENCE mandatory }
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod            RepetitionPeriod,
    repetitionLength            RepetitionLength,
    tDD-DPCHOffset            TDD-DPCHOffset,
    dl-Timeslot-InformationList-RL-SetupRspTDD    UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-
InformationItem-RL-SetupRspTDD

DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot Timeslot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    dL-Code-InformationList-RL-SetupRspTDD DL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationItem-RL-SetupRspTDD

DL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions ProtocolExtensionContainer { {DL-Code-InformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DCH-
InformationResponseListIEs-RL-SetupRspTDD}}

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { 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 OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-
SetupRspTDD}}

DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD CRITICALITY ignore TYPE DSCH-
InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
}

DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-
RL-SetupRspTDD

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID DSCH-ID,
    priorityIndicator PriorityIndicator-RL-SetupRspTDD,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs}
} OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator      SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths            MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
    iE-Extensions                    ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-
SDU-Length

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-
SetupRspTDD}}

USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD          CRITICALITY ignore   TYPE USCH-
InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
}

USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-
RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

RadioLinkSetupFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkSetupFailureFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-
Extensions}}
    OPTIONAL,
    ...
}

RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI                CRITICALITY ignore   TYPE D-RNTI                PRESENCE
optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore   TYPE CN-PS-DomainIdentifier
PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore   TYPE CN-CS-DomainIdentifier
PRESENCE optional } |
    { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore   TYPE CauseLevel-RL-
SetupFailureFDD PRESENCE mandatory } |
}

```

```

    { ID id-UL-SIRTarget          CRITICALITY ignore  TYPE UL-SIR          PRESENCE
optional    } |
    { ID id-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics
  PRESENCE optional    },
    ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause      GeneralCauseList-RL-SetupFailureFDD,
  rLSpecificCause   RLSpecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-SetupFailureFDD  CRITICALITY ignore      TYPE GeneralCauseItem-
RL-SetupFailureFDD          PRESENCE mandatory }
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  cause              Cause,
  iE-Extensions      ProtocolExtensionContainer { { GeneralCauseItem-RL-
SetupFailureFDD-ExtIEs } }      OPTIONAL,
  ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID      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 {
{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,
  uRA-ID URA-ID,
  sAI SAI,
  rSSI RSSI,
  dl-CodeInformation DL-CodeInformationList-RL-SetupFailureFDD,
  diversityIndication DiversityIndication-RL-SetupFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity
  indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator SSdT-SupportIndicator,
  maxUL-SIR UL-SIR,
  minUL-SIR UL-SIR,
  closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  maximumDLTxPower DL-Power,
  minimumDLTxPower DL-Power,
  dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD
  OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD
OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {SuccessfulRL-
InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-SetupFailureFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-SetupFailureFDD

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dl-ScramblingCode DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmission-Gap-Pattern-Sequence-Information-Response Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-
SetupFailureFDD }}

DiversityIndicationIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE
DiversityIndicationItem-RL-SetupFailureFDD PRESENCE mandatory }
}

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
  combining Combining-RL-SetupFailureFDD,
  nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD,
  ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-SetupFailureFDD }}

```

```

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { 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 ::= {
  ...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Single-Container { { NonCombiningOrFirstRLIE-
RL-SetupFailureFDD } }

NonCombiningOrFirstRLIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE
NonCombiningOrFirstRLItem-RL-SetupFailureFDD  PRESENCE mandatory }
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-InformationResponse-RL-SetupFailureFDD  DCH-InformationResponseList-RL-SetupFailureFDD
OPTIONAL,
  iE-Extensions                               ProtocolExtensionContainer { {
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-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 OPTIONAL,
  transportLayerAddress                 TransportLayerAddress OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container { { DSCH-
InformationResponseListIEs-RL-SetupFailureFDD } }

DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD  CRITICALITY ignore  TYPE DSCH-
InformationResponseListIE-RL-SetupFailureFDD  PRESENCE mandatory }
}

DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF
DSCHInformationItem-RL-SetupFailureFDD

DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dsch-ID                               DSCH-ID,
  bindingID                             BindingID,
  transportLayerAddress                 TransportLayerAddress,
  iE-Extensions                       ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupFailureFDD-
ExtIEs } } OPTIONAL,
  ...
}

DSCHInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



```

Neighbouring-CellInformationList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs))
OF ProtocolIE-Single-Container { { Neighbouring-CellInformationItemIE-RL-SetupFailureFDD } }

Neighbouring-CellInformationItemIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE
    Neighbouring-CellInformationItem-RL-SetupFailureFDD PRESENCE mandatory }
}

Neighbouring-CellInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList 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,
  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,
  ...
}

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 -- ,
  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 ::= {
  ...
}

```

\*\*\*\*\* Omitted ASN.1 \*\*\*\*\*

```

-- *****
--
-- 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,
    uRA-ID                   URA-ID,
    sAI                      SAI,
    gA-Cell                  GA-Cell    OPTIONAL,
    gA-AccessPointPosition  GA-AccessPointPosition  OPTIONAL,
    rSSI                     RSSI,
    secondary-CCPCH-Info    Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation       DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication      DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
-- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator    SSdT-SupportIndicator,
    minUL-SIR                UL-SIR,
    maxUL-SIR                UL-SIR,
    closedloopTimingadjustmentmode  ClosedloopTimingadjustmentmode  OPTIONAL,
    maximumAllowedULTxPower  MaximumAllowedULTxPower,
    maximumDLTxPower         DL-Power,
    minimumDLTxPower         DL-Power,
    neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-AdditionRsp  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset       FDD-S-CCPCH-Offset,
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                  TFCS,
    secondaryCCPCH-SlotFormat  SecondaryCCPCH-SlotFormat,
    tFCI-Presence            TFCI-Presence    OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
    multiplexingPosition      MultiplexingPosition,
    sTTD-Indicator           STTD-Indicator,
    fACH-PCH-InformationList  FACH-PCH-InformationList-RL-AdditionRspFDD,
    schedulingInformation     SchedulingInformation-RL-AdditionRspFDD,
    iE-Extensions            ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-AdditionRspFDD

FACH-PCH-InformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    transportFormatSet          TransportFormatSet,
    iE-Extensions               ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-Rep                   IB-SG-REP,
    segmentInformationList      SegmentInformationList-RL-AdditionRspFDD,
    iE-Extensions               ProtocolExtensionContainer { { SchedulingInformation-RL-
AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-
RL-AdditionRspFDD

SegmentInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-POS                   IB-SG-POS,
    iE-Extensions               ProtocolExtensionContainer { { SegmentInformationItem-RL-
AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-AdditionRspFDD }}

DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-AdditionRspFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-AdditionRspFDD

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode           DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-RL-
AdditionRspFDD }}

DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD CRITICALITY ignore TYPE
DiversityIndicationItem-RL-AdditionRspFDD PRESENCE mandatory }
}

```

```

DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
    combining                Combining-RL-AdditionRspFDD,
    nonCombining             NonCombining-RL-AdditionRspFDD,
    ...
}

Combining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD  CRITICALITY ignore    TYPE CombiningItem-RL-
AdditionRspFDD  PRESENCE mandatory }
}

CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-
ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ NonCombiningIE-RL-AdditionRspFDD
}}

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD  CRITICALITY ignore TYPE NonCombiningItem-RL-
AdditionRspFDD  PRESENCE mandatory }
}

NonCombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspFDD    DCH-InformationResponseList-RL-AdditionRspFDD,
    iE-Extensions                                ProtocolExtensionContainer { { NonCombiningItem-RL-
AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID              BindingID OPTIONAL,
    transportLayerAddress  TransportLayerAddress OPTIONAL,
    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
ProtocolIE-Single-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionRsp }}

Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionRsp  CRITICALITY ignore    TYPE
Neighbouring-CellInformationItem-RL-AdditionRsp  PRESENCE mandatory }
}

Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList  Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    per-TDD-Cell-InformationList  Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {Neighbouring-
CellInformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

```

```

Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-FDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...))
OF Per-FDD-Cell-InformationItem-RL-AdditionRsp

Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu        UARFCN,
    uARFCNforNd        UARFCN,
    frameOffset        FrameOffset OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    txDiversityIndicator TxDiversityIndicator,
    sTTD-SupportIndicator sTTD-SupportIndicator OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...))
OF Per-TDD-Cell-InformationItem-RL-AdditionRsp

Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNt        UARFCN,
    frameOffset        FrameOffset OPTIONAL,
    cellParameterID    CellParameterID,
    syncCase           SyncCase,
    timeSlot           TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot       SCH-TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator Block-STTD-Indicator,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue DPCHConstantValue OPTIONAL,
    pCCPCH-Power       PCCPCH-Power,
    iE-Extensions      ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-
AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container {{RadioLinkAdditionResponseTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-
Extensions}}
    OPTIONAL,
    ...
}

RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD
      PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics
      PRESENCE optional },
}

```

```

}
...
}
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
    timingAdjustmentRequired TimingAdjustmentRequired,
    ul-CCTrCHInformation  UL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    dl-CCTrCHInformation  DL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    diversityIndication   DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
    indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR            UL-SIR,
    maxUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower    DL-Power,
    minimumDLTxPower    DL-Power,
    dSCH-InformationResponse DSCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp
    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponse-RL-
    AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-
RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    iSCP                UL-TimeslotISCP,
    iE-Extensions        ProtocolExtensionContainer { { UL-InterferenceItem-RL-
    AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-
CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE UL-
    CCTrCHInformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-
CCTrCHInformationItem-RL-AdditionRspTDD

UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-
    AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-
InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD          CRITICALITY ignore  TYPE UL-DPCH-
InformationItem-RL-AdditionRspTDD  PRESENCE mandatory  }
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tDD-DPCHOffset           TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-AdditionRspTDD            UL-Timeslot-InformationList-RL-
AdditionRspTDD,
    iE-Extensions             ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF UL-Timeslot-
InformationItem-RL-AdditionRspTDD

UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence             TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRspTDD            UL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions             ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationItem-RL-AdditionRspTDD

UL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                   DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { {UL-Code-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-
CCTrCHInformationListIEs-RL-AdditionRspTDD} }

DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE DL-
CCTrCHInformationListIE-RL-AdditionRspTDD  PRESENCE mandatory  }
}

DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-
CCTrCHInformationItem-RL-AdditionRspTDD

DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID                 CCTrCH-ID,
    dl-DPCH-Information        DL-DPCH-InformationList-RL-AdditionRspTDD            OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-
InformationListIEs-RL-AdditionRspTDD} }

DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD          CRITICALITY ignore  TYPE DL-DPCH-
InformationItem-RL-AdditionRspTDD  PRESENCE mandatory }
}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tDD-DPCHOffset           TDD-DPCHOffset,
    dL-Timeslot-InformationList-RL-AdditionRspTDD            UL-Timeslot-InformationList-RL-
AdditionRspTDD,
    iE-Extensions             ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-
InformationItem-RL-AdditionRspTDD

DL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence             TFCI-Presence,
    dL-Code-InformationList-RL-AdditionRspTDD            DL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions             ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationItem-RL-AdditionRspTDD

DL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                   DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions             ProtocolExtensionContainer { {DL-Code-InformationItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Single-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-Single-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-Single-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 ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-AdditionRspTDD

DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    bindingID BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-
InformationListIEs-RL-AdditionRspTDD}}

DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DSCH-
InformationListIE-RL-AdditionRspTDD PRESENCE mandatory }
}

DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF
DSCHInformationItem-RL-AdditionRspTDD

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    priorityIndicator PriorityIndicator-RL-AdditionRspTDD,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
AdditionRspTDD

PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
    iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-
sh-SDU-Length

DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID          BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions      ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-
ExtIEs} } OPTIONAL,
    ...
}
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-
InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore  TYPE USCH-
InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF
USCHInformationItem-RL-AdditionRspTDD

USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions      ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-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-CauseLevel-RL-AdditionFailureFDD          CRITICALITY ignore
    TYPE CauseLevel-RL-AdditionFailureFDD          PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional },
    ...
}

CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause      RLSpecificCauseList-RL-AdditionFailureFDD,
    ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ GeneralCauseIE-RL-
AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore
    TYPE GeneralCauseItem-RL-AdditionFailureFDD          PRESENCE mandatory }
}

```

```

}

GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    cause Cause,
    iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-
AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-
AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { 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,
    uRA-ID URA-ID,
    SAI SAI,
    rSSI RSSI,
    dl-CodeInformation DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
-- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSdT-SupportIndicator,

```

```

minUL-SIR                UL-SIR,
maxUL-SIR                UL-SIR,
closedloopadjustmentmode Closedloopadjustmentmode OPTIONAL,
maximumAllowedULTxPower  MaximumAllowedULTxPower,
maximumDLTxPower        DL-Power,
minimumDLTxPower        DL-Power,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD
OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-AdditionFailureFDD }}

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-AdditionFailureFDD PRESENCE mandatory }
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DiversityIndicationIE-
RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE
DiversityIndicationItem-RL-AdditionFailureFDD PRESENCE mandatory }
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
  combining          Combining-RL-AdditionFailureFDD,
  nonCombining      NonCombining-RL-AdditionFailureFDD,
  ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ CombiningIE-RL-AdditionFailureFDD
}}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE CombiningItem-RL-
AdditionFailureFDD PRESENCE mandatory }
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID              RL-ID,
  iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-
ExtIEs} } OPTIONAL,
  ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ NonCombiningIE-RL-
AdditionFailureFDD }}

```

```

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE NonCombiningItem-RL-
  AdditionFailureFDD PRESENCE mandatory }
}

NonCombiningItem-RL-AdditionFailureFDD ::= 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 OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  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 ProtocolIE-Single-Container {{ Neighbouring-CellInformationItemIE-
RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE
  Neighbouring-CellInformationItem-RL-AdditionFailureFDD PRESENCE mandatory }
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionFailureFDD
  OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionFailureFDD
  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-
  CellInformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-FDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE
(1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNu UARFCN,
  uARFCNforNd UARFCN,
  frameOffset FrameOffset OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  txDiversityIndicator TxDiversityIndicator,
  sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
  closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
  RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE
(1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                               C-ID,
    uARFCNforNt                       UARFCN,
    frameOffset                       FrameOffset          OPTIONAL,
    cellParameterID                   CellParameterID,
    syncCase                           SyncCase,
    timeSlot                           TimeSlot           OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot                       SCH-TimeSlot        OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator               Block-STTD-Indicator,
    cellIndividualOffset               CellIndividualOffset OPTIONAL,
    dPCHConstantValue                 DPCHConstantValue  OPTIONAL,
    pCCPCH-Power                       PCCPCH-Power,
    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 ::= {
    ...
}

***** Omitted ASN.1 *****

-- *****
--
-- RADIO LINK RECONFIGURATION READY FDD
--
-- *****

RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
    protocolIEs                       ProtocolIE-Container    {{RadioLinkReconfigurationReadyFDD-
IEs}},
    protocolExtensions                 ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-
Extensions}}
    ...
}

RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyFDD  CRITICALITY ignore  TYPE RL-
InformationResponseList-RL-ReconfReadyFDD  PRESENCE optional  } |
    { ID id-CriticalityDiagnostics                       CRITICALITY ignore  TYPE CriticalityDiagnostics
PRESENCE optional  },
    ...
}

RL-InformationResponseList-RL-ReconfReadyFDD ::= RL-IE-ContainerList0 { {RL-
InformationResponse-RL-ReconfReadyFDD-IEs} }

RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD  CRITICALITY ignore  TYPE RL-
InformationResponseItem-RL-ReconfReadyFDD  PRESENCE mandatory  },
    ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID                               RL-ID,
    max-UL-SIR                          UL-SIR              OPTIONAL,
    min-UL-SIR                          UL-SIR              OPTIONAL,
    maximumDLTxPower                    DL-Power            OPTIONAL,
    minimumDLTxPower                    DL-Power            OPTIONAL,
    secondary-CCPCH-Info                 Secondary-CCPCH-Info-RL-ReconfReadyFDD  OPTIONAL,
    dl-CodeInformationList               DL-CodeInformationList-RL-ReconfReadyFDD  OPTIONAL,
    dCHsInformationResponseList          DCH-InformationResponseList-RL-ReconfReadyFDD  OPTIONAL,
    dSCHToBeAddedOrModified              DSCHToBeAddedOrModified-RL-ReconfReadyFDD  OPTIONAL,

```

```

    iE-Extensions          ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-ReconfReadyFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset          FDD-S-CCPCH-Offset,
    dl-ScramblingCode           DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                      TFCS,
    secondaryCCPCH-SlotFormat    SecondaryCCPCH-SlotFormat,
    tFCI-Presence                TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
    multiplexingPosition         MultiplexingPosition,
    sTTD-Indicator               STTD-Indicator,
    fACH-PCH-InformationList     FACH-PCH-InformationList-RL-ReconfReadyFDD,
    schedulingInformation        SchedulingInformation-RL-ReconfReadyFDD,
    iE-Extensions                ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-ReconfReadyFDD

FACH-PCH-InformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    transportFormatSet          TransportFormatSet,
    iE-Extensions                ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-ReconfReadyFDD ::= SEQUENCE {
    iB-SG-Rep                    IB-SG-REP,
    segmentInformationList        SegmentInformationList-RL-ReconfReadyFDD,
    iE-Extensions                ProtocolExtensionContainer { { SchedulingInformation-RL-
ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-
RL-ReconfReadyFDD

SegmentInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    iB-SG-POS                    IB-SG-POS,
    iE-Extensions                ProtocolExtensionContainer { { SegmentInformationItem-RL-
ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {{ DL-
CodeInformationListIEs-RL-ReconfReadyFDD }}

DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-ReconfReadyFDD PRESENCE mandatory }
}

```

DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfReadyFDD

```
DL-CodeInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response          Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}
```

DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} }

```
DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReadyFDD PRESENCE mandatory }
}
```

DCH-InformationResponseListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyFDD

```
DCH-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dch-ID          DCH-ID,
    bindingID       BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
```

DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

DSCHToBeAddedOrModified-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD} }

```
DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD PRESENCE mandatory }
}
```

```
DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {
    dschInformation DSCHInformation-RL-ReconfReadyFDD,
    pdSCHCodeMapping PDSCHCodeMapping,
    iE-Extensions  ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
```

DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

DSCHInformation-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-ReconfReadyFDD

```
DSCHInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dsch-ID          DSCH-ID,
    priorityIndicator PriorityIndicator-RL-ReconfReadyFDD,
    bindingID       BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions  ProtocolExtensionContainer { {DSCHInformation-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
```

DSCHInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}



```

PriorityIndicator-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
ReconfReadyFDD

PriorityIndicatorItem-RL-ReconfReadyFDD ::= SEQUENCE {
    schedulingPriorityIndicator      SchedulingPriorityIndicator,
    MAC-c-sh-SDU-Lengths            MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD,
    iE-Extensions                   ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-
sh-SDU-Length

RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION READY TDD
--
-- *****

RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkReconfigurationReadyTDD-
IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-
Extensions}}
    ...
}

RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-ReconfReadyTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD
      PRESENCE optional } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics
      PRESENCE optional },
    ...
}

RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    max-UL-SIR                 UL-SIR                OPTIONAL,
    min-UL-SIR                 UL-SIR                OPTIONAL,
    maximumDLTxPower           DL-Power             OPTIONAL,
    minimumDLTxPower           DL-Power             OPTIONAL,
    ul-CCTrCH-Information      UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information      DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
    dSCHsToBeAddedOrModified   DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    uSCHsToBeAddedOrModified   USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {RL-InformationResponse-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-
CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD
      CRITICALITY ignore TYPE UL-
CCTrCHInformationListIE-RL-ReconfReadyTDD
      PRESENCE mandatory }
}

UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-
InformationItem-RL-ReconfReadyTDD

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {

```

```

cCtRCH-ID                CcTtRCH-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-CcTtRCH-InformationItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-CcTtRCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationAddListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-
InformationAddListIE-RL-ReconfReadyTDD PRESENCE mandatory }
}

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
repetitionPeriod          RepetitionPeriod,
repetitionLength          RepetitionLength,
tDD-DPCHOffset           TDD-DPCHOffset,
uL-Timeslot-InformationAddList-RL-ReconfReadyTDD          UL-Timeslot-InformationAddList-RL-
ReconfReadyTDD,
iE-Extensions            ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-
InformationAddItem-RL-ReconfReadyTDD

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
timeSlot                  TimeSlot,
midambleShiftAndBurstType MidambleShiftAndBurstType,
tFCI-Presence            TFCI-Presence,
uL-Code-InformationAddList-RL-ReconfReadyTDD          UL-Code-InformationAddList-RL-
ReconfReadyTDD,
iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationAddItem-RL-ReconfReadyTDD

UL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
dPCH-ID                  DPCH-ID,
tDD-ChannelisationCode   TDD-ChannelisationCode,
iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationModifyListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-
InformationModifyListIE-RL-ReconfReadyTDD PRESENCE mandatory }
}

```

```

}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tDD-DPCHOffset           TDD-DPCHOffset           OPTIONAL,
    uL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  UL-Timeslot-InformationModifyList-
RL-ReconfReadyTDD          OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {UL-DPCH-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-
Timeslot-InformationModifyItem-RL-ReconfReadyTDD

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType          OPTIONAL,
    tFCI-Presence             TFCI-Presence          OPTIONAL,
    uL-Code-InformationModifyList-RL-ReconfReadyTDD  UL-Code-InformationModifyList-RL-
ReconfReadyTDD          OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-
RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF UL-Code-
InformationModifyItem-RL-ReconfReadyTDD

UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                   DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {UL-Code-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{UL-DPCH-
InformationDeleteListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { 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-Single-Container {{DL-
CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE DL-
CCTrCHInformationListIE-RL-ReconfReadyTDD  PRESENCE mandatory }
}

```

```

}

DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-
InformationItem-RL-ReconfReadyTDD

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-AddInformation    DL-DPCH-InformationAddList-RL-ReconfReadyTDD
    OPTIONAL,
    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-Single-Container {{DL-DPCH-
InformationAddListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD    CRITICALITY ignore TYPE DL-DPCH-
InformationAddListIE-RL-ReconfReadyTDD    PRESENCE mandatory }
}

DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tDD-DPCHOffset          TDD-DPCHOffset,
    dL-Timeslot-InformationAddList-RL-ReconfReadyTDD            DL-Timeslot-InformationAddList-RL-
ReconfReadyTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-
Timeslot-InformationAddItem-RL-ReconfReadyTDD

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationAddList-RL-ReconfReadyTDD            DL-Code-InformationAddList-RL-
ReconfReadyTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-
InformationAddItem-RL-ReconfReadyTDD

DL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { {DL-Code-InformationAddItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-
InformationModifyListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE DL-DPCH-
InformationModifyListIE-RL-ReconfReadyTDD  PRESENCE mandatory }
}

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength          RepetitionLength          OPTIONAL,
  tDD-DPCHOffset           TDD-DPCHOffset           OPTIONAL,
  dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  DL-Timeslot-InformationModifyList-
RL-ReconfReadyTDD  OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-
Timeslot-InformationModifyItem-RL-ReconfReadyTDD

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  timeSlot                  TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType          OPTIONAL,
  tFCI-Presence            TFCI-Presence          OPTIONAL,
  dL-Code-InformationModifyList-RL-ReconfReadyTDD  DL-Code-InformationModifyList-RL-
ReconfReadyTDD  OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-
RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF DL-Code-
InformationModifyItem-RL-ReconfReadyTDD

DL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID                  DPCH-ID,
  tDD-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions            ProtocolExtensionContainer { {DL-Code-InformationModifyItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-
InformationDeleteListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { 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-InformationResponseList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container { {DCH-
InformationResponseListIEs-RL-ReconfReadyTDD} }

DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DCH-
InformationResponseListIE-RL-ReconfReadyTDD PRESENCE mandatory }
}

DCH-InformationResponseListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-ReconfReadyTDD

DCH-InformationResponseItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {
{DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE
DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory }
}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF
DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  transportFormatManagement TransportFormatManagement,
  priorityIndicator PriorityIndicator-RL-ReconfReadyTDD,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicator-RL-ReconfReadyTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-
ReconfReadyTDD

PriorityIndicatorItem-RL-ReconfReadyTDD ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-
sh-SDU-Length

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {
{USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE
USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory }
}

USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF
USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

```

```

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatManagement TransportFormatManagement,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-
ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

***** Omitted ASN.1 *****

-- *****
--
-- 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
    { 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,
    maximumDLTxPower     DL-Power         OPTIONAL,
    minimumDLTxPower     DL-Power         OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp    OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfRsp    OPTIONAL,
    dL-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-ReconfRsp ::= SEQUENCE {
    fDD-S-CCPCH-Offset    FDD-S-CCPCH-Offset,
    dl-ScramblingCode     DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS               TFCS,
    secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    tFCI-Presence         TFCI-Presence    OPTIONAL,
}

```

```

-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
multiplexingPosition           MultiplexingPosition,
sTTD-Indicator                 sTTD-Indicator,
fACH-PCH-InformationList      fACH-PCH-InformationList-RL-ReconfRsp,
schedulingInformation         SchedulingInformation-RL-ReconfRsp,
iE-Extensions                 ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

fACH-PCH-InformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF fACH-PCH-
InformationItem-RL-ReconfRsp

fACH-PCH-InformationItem-RL-ReconfRsp ::= SEQUENCE {
transportFormatSet           TransportFormatSet,
iE-Extensions               ProtocolExtensionContainer { { fACH-PCH-InformationItem-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
...
}

fACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SchedulingInformation-RL-ReconfRsp ::= SEQUENCE {
iB-SG-Rep                   IB-SG-REP,
segmentInformationList      SegmentInformationList-RL-ReconfRsp,
iE-Extensions               ProtocolExtensionContainer { { SchedulingInformation-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
...
}

SchedulingInformation-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SegmentInformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-
ReconfRsp

SegmentInformationItem-RL-ReconfRsp ::= SEQUENCE {
iB-SG-POS                   IB-SG-POS,
iE-Extensions               ProtocolExtensionContainer { { SegmentInformationItem-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
...
}

SegmentInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-Single-Container { {DCH-
InformationResponseListIEs-RL-ReconfRsp} }

DCH-InformationResponseListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
{ ID id-DCH-InformationResponseListIE-RL-ReconfRsp    CRITICALITY ignore    TYPE DCH-
InformationResponseListIE-RL-ReconfRsp    PRESENCE mandatory }
}

DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-ReconfRsp

DCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
dCH-ID                       DCH-ID,
bindingID                     BindingID OPTIONAL,
transportLayerAddress         TransportLayerAddress OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
ReconfRsp-ExtIEs} } OPTIONAL,
...
}

DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```



```
DL-CodeInformationList-RL-ReconfRsp ::= ProtocolIE-Single-Container { { DL-CodeInformationListIEs-RL-
ReconfRsp } }
```

```
DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-ReconfRsp CRITICALITY ignore TYPE DL-
CodeInformationListIE-RL-ReconfRsp PRESENCE optional }
}
```

```
DL-CodeInformationListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-ReconfRsp
```

```
DL-CodeInformationItem-RL-ReconfRsp ::= SEQUENCE {
  dl-ScramblingCode DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmission-Gap-Pattern-Sequence-Information-Response Transmission-Gap-Pattern-
Sequence-Information-Response,
  iE-Extensions ProtocolExtensionContainer { { DL-CodeInformationItem-RL-
ReconfRsp-ExtIEs } } OPTIONAL,
  ...
}
```

```
DL-CodeInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
RadioLinkReconfigurationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
***** Ommited ASN.1 *****
```



## 8.2.1 Uplink Signalling Transfer

### 8.2.1.1 General

The procedure is used by the DRNC to forward a Uu message received on the CCCH to the SRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.1.2 Successful Operation

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.

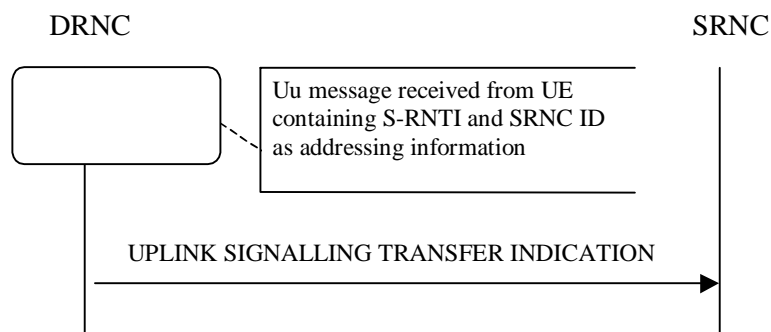
The DRNC shall include in the message the URA Identity of the URA-cell where the Uu message was received (the accessed cell), an indication on whether or not the accessed cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface in the accessed cell. When there is no valid C-RNTI for the UE in the accessed cell, the DRNC-DRNS shall allocate a new C-RNTI for the UE, If the DRNS allocates a new C-RNTI it shall also release any C-RNTI previously allocated for the UE the old one.

If the DRNS has any RACH, FACH, and CPCH resources allocated for the UE identified by the U-RNTI in another cell that the accessed cell, the DRNS shall release these RACH, [FDD - CPCH,] and/or FACH resources.

If the message received from the UE was the first message from that UE in the DRNC, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context, and include the *D-RNTI* IE and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell where the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message.



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

### 8.2.1.3 Abnormal Conditions

-

## 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* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD - USCH,] and/or DSCH) allocated for the UE, the DRNS shall release the D-RNTI and thus the UE Context and any RACH, [FDD - CPCH,] and FACH DRNS-resources and any C-RNTI allocated to the UE Context shall be released at the reception of the DOWNLINK UPLINK-SIGNALLING TRANSFER REQUEST INDICATION message.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH, [FDD - CPCH,] and FACH resources and any C-RNTI allocated to the UE Context at the reception of the DOWNLINK SIGNALLING TRANSFER REQUEST message.



**Figure 2: Downlink Signalling Transfer procedure, Successful Operation**

### 8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE is not camping in the cell identified by the *C-Id* IE in the DOWNLINK UPLINK-SIGNALLING TRANSFER REQUEST 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 DOWNLINK UPLINK-SIGNALLING TRANSFER REQUEST INDICATION message shall be ignored.

**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 281**

Current Version: **V 3.3.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN #10**  
 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:** **23 Nov 2000**

**Subject:** **Introduction of Alpha-Value**

**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:** The value of alpha used in the open loop power control equation of TDD can currently be set autonomously by the UE. I.e., the UE can chose between a minimum value of 0 and a maximum value of 1.  
 The use of a high value of alpha assumes a high degree of reciprocity between the downlink beacon channel and the uplink channel being power controlled. This reciprocity is not guaranteed, however. For example, the Node B may be using separate transmit and receive antennas.  
 It is therefore proposed that the network can impose a minimum level of filtering of the pathloss estimate by specifying a maximum value of alpha that can be used in the open loop power control equation. This parameter would be set dependent on the expected channel reciprocity. It is to be broadcast in the entire cell.  
 This CR shall introduce the corresponding signalling of the maximum value of alpha from DRNS to SRNS. This signalling is introduced in order to inform the algorithm setting the SIR target, which is usually running in the SRNS, on the maximum allowed value for alpha.  
Consequences if not accepted:  
 Missing of signalling support for maximum allowed alpha value.

**Clauses affected:** **9.1.4.2; 9.1.7.2; 9.2.3.alpha; 9.3.3; 9.3.4**

**Other specs affected:** Other 3G core specifications  → List of CRs: **25.224CR43; 25.331CR632**  
 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.

## 9.1.4 RADIO LINK SETUP RESPONSE

### 9.1.4.1 FDD Message

### 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	Reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	Ignore
CN PS Domain Identifier	O		9.2.1.12		YES	Ignore
CN CS Domain Identifier	O		9.2.1.11		YES	Ignore
<b>RL Information Response</b>		1			YES	Ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<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		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
> <a href="#">Alpha Value</a>	<u>M</u>		<a href="#">9.2.3.α</a>		<u>–</u>	
<b>&gt;UL CCTrCH Information</b>		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;DL CCTrCH Information</b>		<i>0..&lt;maxno ofCCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.x		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		<i>1 to &lt;maxnoOf TS&gt;</i>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		<i>1 to &lt;maxnoOf DPCH&gt;</i>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DCH Information Response</b>		<i>1..&lt;maxno ofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
<b>&gt;DSCH Information Response</b>		<i>0.. &lt;Maxnoof DSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M				–	
<b>&gt;&gt;Priority Indicator</b>		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		<i>1..&lt;MaxNb MAC-c/shSDUL ength&gt;</i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;USCH Information Response</b>		<i>0.. &lt;Maxnoof USCHs&gt;</i>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxno ofneighbo</i>			EACH	ignore



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		uringRNCs >				
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneighbours&gt;</i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

## 9.1.7 RADIO LINK ADDITION RESPONSE

### 9.1.7.1 FDD Message

### 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofU Lts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Timeslot ISCP	M		9.2.3.13A		–	
>Timing Adjustment Required	M		9.2.3.12A		–	
<u>&gt;Alpha Value</u>	<u>M</u>		<u>9.2.3.α</u>		<u>–</u>	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		1 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		1 to <maxnoOfT S			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift	M		9.2.3.4		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
and Burst Type						
>>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;DL Code Information</b>		1 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE diversity indication						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>Non combining					YES	ignore
<b>&gt;&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		9.2.1.16		–	
>>>>>Binding ID	M		9.2.1.3		–	
>>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
<b>&gt;DSCH Information Response</b>		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	M				–	
<b>&gt;&gt;Priority Indicator</b>		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
<b>&gt;&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxNb MAC-c/shSDULen gth>			–	
>>>>>MAC-c/sh SDU Length	M				–	
<b>&gt;&gt;CHOICE Diversity Indication</b>					–	
>>>Non combining					–	
>>>>>BindingID	M				–	
>>>>>Transport Layer Address	M				–	
<b>&gt;USCH Information Response</b>		0 .. <Maxnoof			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>USCHs</i> >				
>>USCH ID	M				–	
>>Transport Format Management	M				–	
>> <b>CHOICE Diversity Indication</b>					–	
>>> <i>Non combining</i>					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
> <b>Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouringRNCs&gt;</i>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>> <b>Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>> <b>Per TDD Cell Information</b>		<i>0..&lt;maxnoof TDDneighbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

## 9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

### 9.2.3.α Alpha Value

Used to support signalling of cell specific Alpha Value to SRNS.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Alpha Value</u>			<u>ENUMERATED(0, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 1)</u>	

### 9.2.3.A Block STTD Indicator

Indicates if Block STTD antenna diversity is applied or not to the PCCPCH.

<b>Information Element/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
Block STTD Indicator			ENUMERATED(active, inactive)	

### 9.2.3.1 Burst Type

Void.

### 9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

<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)	

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
  Active-Pattern-Sequence-Information,
  AllocationRetentionPriority,
  AllowedQueuingTime,
  AlphaValue,
  BLER,
  Block-STTD-Indicator,
  BindingID,
  C-ID,
  C-RNTI,
  CCTrCH-ID,
  CellIndividualOffset,
  CFN,
  ClosedLoopMode1-SupportIndicator,
  ClosedLoopMode2-SupportIndicator,
  ClosedloopTimingadjustmentmode,
  CN-CS-DomainIdentifier,
  CN-PS-DomainIdentifier,
  Cause,
  CellParameterID,
  ChipOffset,
  CriticalityDiagnostics,
  D-RNTI,
  D-RNTI-ReleaseIndication,
  DCH-ID,
  DL-DPCH-SlotFormat,
  DL-TimeslotISCP,
  DL-Power,

```



DL-ScramblingCode,  
DPCHConstantValue,  
DPCH-ID,  
DRACControl,  
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DiversityControlField,  
DiversityMode,  
DSCH-ID,  
FACH-InitialWindowSize,  
SchedulingPriorityIndicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
GA-AccessPointPosition,  
GA-Cell,  
IB-SG-POS,  
IB-SG-REP,  
IMSI,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrDLPhysicalchannels,  
MaxNrOfUL-DPCHs,  
MaxNrTimeslots,  
MaxNrULPhysicalchannels,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftAndBurstType,  
MinimumSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultipleURAsIndicator,  
MultiplexingPosition,  
NrOfDLchannelisationcodes,  
PDSCHCodeMapping,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PRACH-Midamble,  
PRACH-MinimumSpreadingFactor,  
PreambleSignatures,  
PrimaryCCPCH-RSCP,  
PrimaryCPICH-EcNo,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,

PropagationDelay,  
PunctureLimit,  
QE-Selector,  
RACH-SubChannelNumbers,  
RANAP-RelocationInformation,  
RB-Identity,  
RL-ID,  
RL-Set-ID,  
RNC-ID,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
RSSI,  
S-FieldLength,  
S-RNTI,  
SCH-TimeSlot,  
SAI,  
SN,  
SSDT-CellID,  
SSDT-CellID-Length,  
SSDT-Indication,  
SSDT-SupportIndicator,  
STTD-Indicator,  
STTD-SupportIndicator,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
SyncCase,  
TDD-ChannelisationCode,  
TDD-DPCHOffset,  
TDD-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
TimingAdjustmentRequired,  
ToAWE,  
ToAWS,  
TransmitDiversityIndicator,  
TransportBearerID,  
TransportBearerRequestIndicator,  
TFCS,  
Transmission-Gap-Pattern-Sequence-Information,  
Transmission-Gap-Pattern-Sequence-Information-Response,  
TransportFormatManagement,  
TransportFormatSet,  
TransportLayerAddress,  
TrCH-SrcStatisticsDescr,

```
TxDiversityIndicator,  
UARFCN,  
UC-ID,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-ScramblingCode,  
UL-TimeslotISCP,  
URA-ID,  
USCH-ID  
FROM RNSAP-IEs
```

```
/** snip **/
```

```
/** snip **/
```

```
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-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}
```

```
RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  uRA-ID         URA-ID,
  sAI           SAI,
  gA-Cell       GA-Cell OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
  ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
  maxUL-SIR     UL-SIR,
  minUL-SIR     UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  maximumDLTxPower DL-Power,
  minimumDLTxPower DL-Power,
  timingAdjustmentRequired TimingAdjustmentRequired,
  alphaValue     AlphaValue,
  ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
  dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
  dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
  dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
  usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
  -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
  ...
}
```

```
/** snip **/
```

```
/** snip **/
```

```
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponse-RL-AdditionRspTDD
    CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
  rL-ID RL-ID,
  uRA-ID URA-ID,
  sAI SAI,
  gA-Cell GA-Cell OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
  ul-InteferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
  timingAdjustmentRequired TimingAdjustmentRequired,
  alphaValue AlphaValue,
  ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  diversityIndication DiversityIndication-RL-AdditionRspTDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  minUL-SIR UL-SIR,
  maxUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  maximumDLTxPower DL-Power,
  minimumDLTxPower DL-Power,
  dSCH-InformationResponse DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
/** snip **/
```

## 9.3.4 Information Element Definitions

```

-- *****
--
-- Information Element Definitions
--
-- *****

/** snip */

-- A

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN          CFN,
    transmission-Gap-Pattern-Sequence-Status  Transmission-Gap-Pattern-Sequence-Status-List  OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

AdjustmentPeriod          ::= INTEGER(1..300)
-- Unit Frame

AllocationRetentionPriority    ::= FrameHandlingPriority

AllowedQueuingTime          ::= INTEGER (0..60)
-- seconds

AlphaValue                ::= INTEGER (0..8)
-- Actual value = Alpha / 8

-- B

BetaCD ::= INTEGER (0..15)

BindingID                  ::= OCTET STRING (SIZE (1..4,...))

/** snip */

```