

**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

<b>Tdoc_Num</b>	<b>Specification</b>	<b>CR_Num</b>	<b>Revision_Nu</b>	<b>CR_Subject</b>	<b>CR_Categor</b>	<b>WG_Status</b>	<b>Cur_Ver_Nu</b>	<b>New_Ver_Nu</b>
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

## 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		
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <i>Use <u>one</u> 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.                 </td> <td style="width: 50%; vertical-align: top;"> <i>Use <u>one</u> 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)                 </td> </tr> </table>		<i>Use <u>one</u> 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 <u>one</u> 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)
<i>Use <u>one</u> 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 <u>one</u> 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 ofFDDneigh hours&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 ofTDDneigh hours&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 <b>Adjustment Required</b> <b>Advance Applied</b>	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		–	
<b>&gt;&gt;&gt;DL 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;DL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DCH Information Response</b>		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		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>		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
<b>&gt;&gt;Priority Indicator</b>		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
<b>&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				–	
>>Transport Format Management	M				–	
<b>&gt;USCH Information Response</b>		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;Neighbouring Cell Information</b>	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

## 9.1.7 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: $\tau_{S-CCPCH,k}$ , 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>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 .. <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 <b>Advance Applied Adjustment Required</b>	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 <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 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 <maxnoOfD 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	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 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;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 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.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
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.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
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

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
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].

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
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.

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE type and reference</b>	<b>Semantics description</b>
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,  
~~TimingAdjustmentRequired~~TimingAdvanceApplied,  
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,
    TimingAdjustmentRequiredTimingAdvanceApplied TimingAdjustmentRequiredTimingAdvanceApplied,
    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 {
    cCCTrCH-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,
    timingAdjustmentRequired timingAdvanceApplied TimingAdjustmentRequired TimingAdvanceApplied,
    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 ::= {  
    ...  
}
```

```
-- 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>		40 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 ofDLts>			–	
>>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: [ftp://ftp.3gpp.org/Information/CR-Form-v2.doc](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'



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="#">&gt;UL PhysCH SF Variation</a>	<b>M</b>		<a href="#">9.2.3.13B</a>		–	
<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;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;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>					–	
>>>Non combining					–	
>>>>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 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>2 (GSM Phase 2)  R96 (Release 1996)  R97 (Release 1997)  R98 (Release 1998)  R99 (Release 1999)  REL-4 (Release 4)  REL-5 (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> <ol style="list-style-type: none"> <li>1. DNRS -&gt; DRNS</li> <li>2. Only changes which this contribution proposes are using revision mark.</li> </ol> <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 flexibile 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

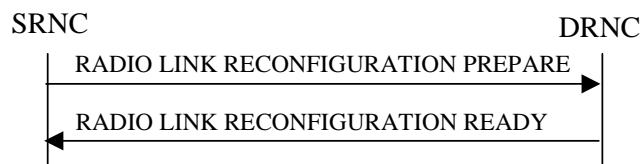
### 8.3.4.1 General

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 DPCCCH Slot Format IE*, the DRNS shall apply the new Uplink DPCCCH 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 DPCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPCHs according to [8]. When  $p$  number of DL DPCHs 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.

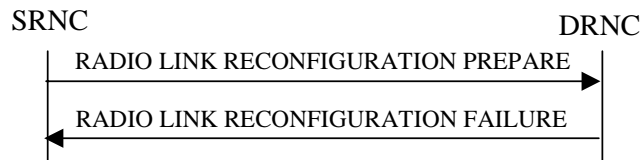
The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

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

## 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 269r1**

Current Version: **3.3.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG 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:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

November 2000

**Subject:**

Correction for ProtocolIE-Single-Container

**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:**

**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

**Other specs**

Other 3G core specifications

→ List of CRs:

**Affected:**

Other GSM core specifications

→ List of CRs:

MS test specifications

→ List of CRs:

BSS test specifications

→ List of CRs:

O&M specifications

→ List of CRs:

**Other**

**comments:**



### 9.3.3 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                SSDDT-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 {

```

```

    cTrCH-ID          CTrCH-ID,
    dl-DPCH-InformationList-RL-SetupRspTDD OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { {DL-CTrCHInformationItem-RL-
SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CTrCHInformationItem-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 } }
    ...
}

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 } }
    ...
}

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

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```

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,
    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
AdditionRspTDD,
    iE-Extensions
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
    midambleShiftAndBurstType
    tFCI-Presence
    UL-Code-InformationList-RL-AdditionRspTDD
    iE-Extensions
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
    tDD-ChannelisationCode
    iE-Extensions
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
    dl-DPCH-Information
    iE-Extensions
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
    repetitionLength
    tDD-DPCHOffset
    RepetitionPeriod,
    RepetitionLength,
    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          CRITICALITY reject  TYPE UL-DPCH-
Information-RL-ReconfPrepFDD          PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD          CRITICALITY reject  TYPE DL-DPCH-
Information-RL-ReconfPrepFDD          PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD              CRITICALITY reject  TYPE DCH-ModifyList-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD                  CRITICALITY reject  TYPE DCH-AddList-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD              CRITICALITY reject  TYPE DCH-DeleteList-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-DSCH-Modify-RL-ReconfPrepFDD                  CRITICALITY reject  TYPE DSCH-Modify-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-DSCH-Add-RL-ReconfPrepFDD                     CRITICALITY reject  TYPE DSCH-Add-RL-ReconfPrepFDD
    PRESENCE optional } |
    { ID id-DSCH-Delete-RL-ReconfPrepFDD                  CRITICALITY reject  TYPE DSCH-Delete-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD           CRITICALITY reject  TYPE RL-InformationList-RL-
ReconfPrepFDD          PRESENCE optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject  TYPE Transmission-
Gap-Pattern-Sequence-Information     PRESENCE optional },
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode            UL-ScramblingCode        OPTIONAL,
    ul-SIRTarget                  UL-SIR                    OPTIONAL,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs             MaxNrOfUL-DPDCHs         OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit             PunctureLimit            OPTIONAL,
    tFCS                          TFCS                    OPTIONAL,
}

```

```

    ul-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,
    bBLER                      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 }T
...
}

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 }T
...
}

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 }T
...
}

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 }+
    ...
}

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 }+
    ...
}

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            CCH-CH-ID,
    trChSourceStatisticsDescriptor TrCH-SourceStatisticsDescr,
    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 }
}
}

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}}
    OPTIONAL,
    ...
}

RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject  TYPE UL-DPCH-
Information-RL-ReconfRqstFDD          PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DL-DPCH-
Information-RL-ReconfRqstFDD          PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DCH-ModifyList-RL-
ReconfRqstFDD          PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DCH-AddList-RL-
ReconfRqstFDD          PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DCH-DeleteList-RL-
ReconfRqstFDD          PRESENCE optional } |
    { 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-ContainerListSEQUENCE (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-ContainerListSEQUENCE (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 } }
        ...
    }

    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 } }
        ...
    }

    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-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp      CRITICALITY ignore      TYPE      RL-InformationItem-DM-Rsp
      PRESENCE mandatory }
    ...
}

RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-ID                          RL-ID,
    dPCH-ID                         DPCH-ID                        OPTIONAL,
    dedicatedMeasurementValue       DedicatedMeasurementValue,
    iE-Extensions                  ProtocolExtensionContainer { {RL-InformationItem-DM-Rsp-ExtIEs}
} OPTIONAL,
    ...
}

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

RL-Set-InformationList-DM-Rsp ::= RL-Set-IE-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-Rprt CRITICALITY ignore TYPE
DedicatedMeasurementObjectType-DM-Rprt PRESENCE mandatory } |
    { ID id-CFN                    CRITICALITY ignore TYPE CFN                    PRESENCE optional },
    ...
}

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

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

RLIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rprt          CRITICALITY ignore TYPE RLItem-DM-Rprt          PRESENCE
mandatory }
}

RLItem-DM-Rprt ::= SEQUENCE {
    rL-InformationList-DM-Rprt      RL-InformationList-DM-Rprt,
    iE-Extensions                  ProtocolExtensionContainer { { RLItem-DM-Rprt-ExtIEs } }
OPTIONAL,
    ...
}

RLItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-DM-Rprt ::= ProtocolIE-Single-Container {{ RL-SetIE-DM-Rprt }}

RL-SetIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-RL-SetItem-DM-Rprt          CRITICALITY ignore      TYPE      RL-SetItem-DM-Rprt      PRESENCE
      mandatory      }
  }

RL-SetItem-DM-Rprt ::= SEQUENCE {
  rL-Set-InformationList-DM-Rprt  RL-Set-InformationList-DM-Rprt,
  iE-Extensions                    ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }
OPTIONAL,
  ...
}

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

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

RL-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-DM-Rprt    CRITICALITY ignore  TYPE RL-InformationItem-DM-Rprt
    PRESENCE mandatory } }
  ...
}

RL-InformationItem-DM-Rprt ::= SEQUENCE {
  rL-ID          RL-ID,
  dPCH-ID        DPCH-ID          OPTIONAL,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} }
} OPTIONAL,
  ...
}

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

RL-Set-InformationList-DM-Rprt          ::= RL-Set-IE-ContainerListSEQUENCE (SIZE
(1..maxNrOfRLSets)) OF ProtocolIE-Single-Container { {RL-Set-Information-DM-Rprt-IEs} }

RL-Set-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-DM-Rprt    CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-
Rprt      PRESENCE mandatory } }
  ...
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
  rL-Set-ID          RL-Set-ID,
  measurementAvailabilityIndicator MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
  iE-Extensions      ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rprt-
ExtIEs} } OPTIONAL,
  ...
}

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

MeasurementAvailabilityIndicator-DedicatedMeasurementReport ::= CHOICE {
  measurementAvailable      MeasurementAvailable-DedicatedMeasurementReport,
  measurementnotAvailable   MeasurementnotAvailable-DedicatedMeasurementReport,
  ...
}

MeasurementAvailable-DedicatedMeasurementReport ::= ProtocolIE-Single-Container {{
MeasurementAvailableIE-DedicatedMeasurementReport }}

MeasurementAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE
MeasurementAvailableItem-DedicatedMeasurementReport      PRESENCE mandatory }
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
  dedicatedmeasurementValue      DedicatedMeasurementValue,
  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
```



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)	

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.					
<b>25.423</b>	<b>CR</b>	<b>275r1</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>RAN #10</b> <i>list expected approval meeting # here</i> ↑	for approval for information	<table border="1" style="border-collapse: collapse;"> <tr><td style="text-align: center;"><b>X</b></td></tr> <tr><td style="text-align: center;"> </td></tr> </table>	<b>X</b>		strategic <table border="1" style="border-collapse: collapse;"><tr><td style="text-align: center;"> </td></tr></table> non-strategic <table border="1" style="border-collapse: collapse;"><tr><td style="text-align: center;"> </td></tr></table> (for SMG use only)		
<b>X</b>							

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <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:** Time measurement granularity

**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:** RAN WG4 changed the granularity of the Round Trip Time measurement indicated in LS R3-003154. This CR reflects the changes made in 25.133 and incorporates this new definition in 25.423.

Consequences if not accepted:  
Inconsistency between WG3 and WG4 specs.

**Clauses affected:** 9.2.1.19, 9.2.1.38, 9.2.1.39, 9.3.4

<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: CR320r1 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	--	--

**Other comments:**



help.doc

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

## 9.2.1.19 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	C – Threshold		INTEGER(0..62)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 62: 31dB
SIR Error	C – Threshold		INTEGER(0..124)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 124: 62 dB (FDD only)
Transmitted Code Power	C – Threshold		INTEGER(0..112,...)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 112: 56 dB
RSCP	C – Threshold		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB (TDD only)
Round Trip Time	C – Threshold		INTEGER(0.. <del>849032766</del> )	0: 0 chips 1: <del>0.25-0.0625</del> chips 2: <del>0.5-0.1250</del> chips ... <del>849032766</del> : <del>2047-52047,875</del> chips (FDD only)

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

### 9.2.1.39 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	C – Threshold		INTEGER(0..63)	According to mapping in ref. [23] and [24].
SIR Error	C – Threshold		INTEGER(0..125)	According to mapping in [23], (FDD only)
Transmitted Code Power	C – Threshold		INTEGER(0..127)	According to mapping in ref. [23] and [24].
RSCP	C – Threshold		INTEGER(0..81)	According to mapping in ref. [24] (TDD only)
Rx Timing Deviation	C – Threshold		INTEGER(0..2047)	According to mapping in [24] (TDD only)
Round Trip Time	C – Threshold		INTEGER(0.. <del>849432767</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)
```



CR-Form-v3

## 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>Use <u>one</u> of the following categories:</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>Use <u>one</u> of the following releases:</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 <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	TS 25.433 CR321
<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)".

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.423 CR 277</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>RAN #10</b>	for approval for information	<input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> (for SMG use only)
list expected approval meeting # here ↑			

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:**



help.doc

<----- 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)  <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>Use <u>one</u> of the following releases:</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>	⌘ 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

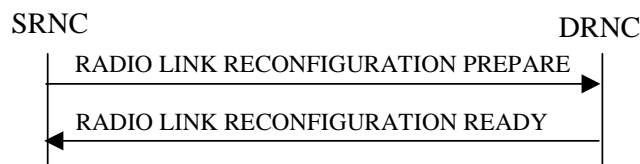
### 8.3.4.1 General

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

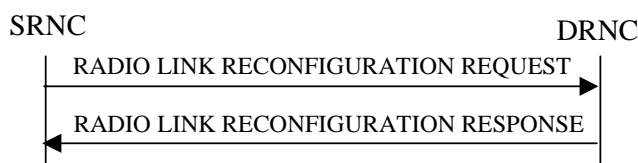
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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: $T_{S-CCPCH,k}$ , 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>&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 ofFDDneigh hours&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 ofTDDneigh hours&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		–	
<b>&gt;&gt;&gt;DL 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;DL Code Information</b>		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;DCH Information Response</b>		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	MO		9.2.1.3		–	
>>Transport Layer Address	MO		9.2.1.62		–	
<b>&gt;DSCH Information Response</b>		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
<b>&gt;&gt;Priority Indicator</b>		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
<b>&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				–	
>>Transport Format Management	M				–	
<b>&gt;USCH Information Response</b>		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
<b>&gt;Neighbouring Cell Information</b>	O	0..<maxno ofneighboringRNCs >			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	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	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		0..<maxno ofDSCHs>			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 ofFDDneig 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 ofTDDneig 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		–	
>>>>>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: $\tau_{S-CCPCH,k}$ , 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>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	MO		9.2.1.3		–	
>>>>Transport Layer Address	MO		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 <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 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 <maxnoOfD 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	MO		9.2.1.3		–	
>>>>Transport Layer Address	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/shSDULen gth>			–	
>>>>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 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;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 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> <sub>O</sub>		9.2.1.3		–	
>>>>>>Transport Layer Address	<del>M</del> <sub>O</sub>		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	MO		9.2.1.3		–	
>>Transport Layer Address	MO		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 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>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
<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 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;DL Timeslot Information</b>		0 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;DL Code Information</b>		0 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;DL 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;DL 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;DL Code Information</b>		0 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
<b>&gt;&gt;DL DPCH to be deleted</b>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
<b>&gt;DCH Information Response</b>		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.  The IE group shall be included only once per DCH per set of combined RLS.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	MO		9.2.1.3		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Layer Address	MO		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>		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;DCH Information Response</b>		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.  The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore

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

\*\*\*\*\* Ommited 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                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-ContainerList1 { {RL-
InformationResponseItemIEs-RL-SetupRspFDD} }

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

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    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}}
    ...
}

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 ::= {
  ...
}

```

\*\*\*\*\* Ommited 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,
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 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,
  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 ::= {
    ...
}

***** Ommited 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,  
fd-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.

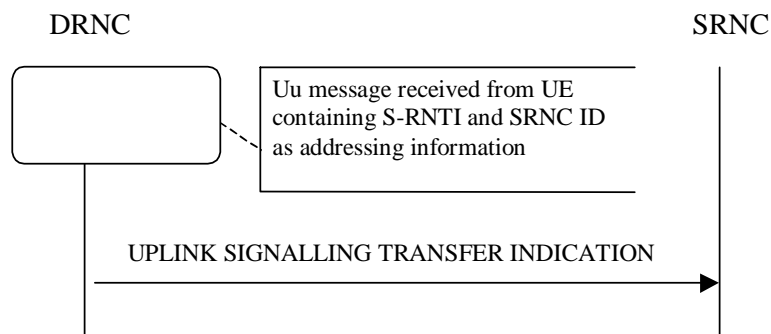
The DRNC shall include in the message the URA Identity of the [URA-cell](#) where the Uu message was received ([the accessed cell](#)), an indication on whether or not the accessed cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA where 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~~ [If there is no valid C-RNTI for the UE in the accessed cell, the DRNC-DRNS shall](#) allocate a new C-RNTI ~~to~~ [for](#) the UE, ~~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: <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:** **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>	<a href="#">M</a>		<a href="#">9.2.3.α</a>		<a href="#">=</a>	
<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;Alpha Value</a>	<u>M</u>		<a href="#">9.2.3.α</a>		<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;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;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 */

```