

**TSG-RAN Meeting #9  
Hawaii, US, 20 - 22 September 2000**

**TSGRP#9(00)0380**

**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_Num</b>	<b>CR_Subject</b>	<b>CR_Category</b>	<b>WG_Status</b>	<b>Cur_Ver_Num</b>	<b>New_Ver_Num</b>
R3-001944	25.423	168		correction of errors in the ASN.1 part of RNSAP	F	agreed	3.2.0	3.3.0
R3-002229	25.423	169	2	Correction to Burst Type IE and Midamble Shift IE in TDD messages	F	agreed	3.2.0	3.3.0
R3-002186	25.423	171	1	BER at Uplink DTX for TDD	F	agreed	3.2.0	3.3.0
R3-002254	25.423	173	1	TDD CCTrCH power control ambiguity	F	agreed	3.2.0	3.3.0
R3-002084	25.423	174		Renaming of Timeslot ISCP	F	agreed	3.2.0	3.3.0
R3-002232	25.423	176	1	Correction to FDD DL Channelisation Code Number IE definition	F	agreed	3.2.0	3.3.0
R3-002259	25.423	178	1	Initial DL transmission power allocation in DRNC	F	agreed	3.2.0	3.3.0
R3-002235	25.423	179	1	Introduction of SRNC-Id in the RL SETUP REQUEST Message	F	agreed	3.2.0	3.3.0
R3-002236	25.423	180	1	Missing Choice Tag in the RL RECONFIGURATION FAILURE Message	F	agreed	3.2.0	3.3.0
R3-002208	25.423	183	1	Measurement alignment	F	agreed	3.2.0	3.3.0
R3-002196	25.423	184		Clarification of usage of reporting objects in the RL restoration procedure	F	agreed	3.2.0	3.3.0
R3-002347	25.423	185	3	Non-core Features in RNSAP	F	agreed	3.2.0	3.3.0

R3-002257	25.423	186	1	Correction to RL Addition, Transmit Diversity Indicator	F	agreed	3.2.0	3.3.0
R3-002204	25.423	187		Limited power increase chapter	F	agreed	3.2.0	3.3.0
R3-002213	25.423	188		Measurement Grouping in the DRNC	F	agreed	3.2.0	3.3.0
R3-002280	25.423	189	1	Remove Unnecessary use of the ProtocolE-Container	F	agreed	3.2.0	3.3.0
R3-002336	25.423	190	1	Correction to Compressed Mode	F	agreed	3.2.0	3.3.0
R3-002346	25.423	191	1	Procedure Rejection in RNSAP due to Lack of Support on NBAP	F	agreed	3.2.0	3.3.0
R3-002340	25.423	192	1	Support for CELL_FACH to CELL_DCH state transition	F	agreed	3.2.0	3.3.0
R3-002282	25.423	193		RNSAP Support for switching from Cell_DCH to URA_PCH State	F	agreed	3.2.0	3.3.0

**3GPP RAN WG3 Meeting #14  
Helsinki, Finland, 3<sup>rd</sup>-7<sup>th</sup> July 2000**

**Document R3-001944**

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

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>						
<b>25.423</b>	<b>CR 168</b>	Current Version: <b>3.2.0</b>						
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>	<small>↑ CR number as allocated by MCC support team</small>							
For submission to: <b>TSG RAN#9</b> <small>list expected approval meeting # here ↑</small>	for approval for information <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;"><b>X</b></td></tr><tr><td style="text-align: center;"> </td></tr></table>	<b>X</b>		strategic <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;"> </td></tr><tr><td style="text-align: center;"> </td></tr></table> (for SMG use only) non-strategic <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;"> </td></tr><tr><td style="text-align: center;"> </td></tr></table>				
<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:** July 2000

**Subject:** Correction of Errors in the ASN.1 part of RNSAP

**Work item:**

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

**Reason for change:**

This CR corrects the following errors in the ASN.1 part of the RNSAP specification:

1. There are some "illegal" characters in the PDU definitions module causing syntax error. The "illegal" characters are removed.
2. The chapter heading of the Constants Module is currently an ASN.1 comment (making it possible to get this heading into the table of Content where it is currently missing). The chapter heading is re-inserted.
3. The chapter heading of the Container Module is currently an ASN.1 comment (making it possible to get this heading into the table of Content where it is currently missing). The chapter heading is re-inserted.

**Clauses affected:** 9.3.3, 9.3.6, and 9.3.7

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

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

### 9.3.3 PDU Definitions

```

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

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

BEGIN

<Editor's note: Some parts of the module are skipped>

-- *****
--
-- 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 ::= {
    ...
}

```

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```
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS                TFCS OPTIONAL,
    tFCI-SignallingMode TFCS-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,
    dRACCControl        DRACCControl 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,

```

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

<Editor's note: Some parts of the module are skipped>

-- \*\*\*\*\*

```

--
-- 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-Container { { RLIE-RL-FailureInd } }

RLIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-FailureInd CRITICALITY ignore TYPE RLItem-RL-FailureInd PRESENCE mandatory },
    ...
}

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

RLItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-FailureInd ::= RL-IE-ContainerList1 { {RL-Information-RL-FailureInd-IEs} }

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

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

```

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

<Editor's note: The rest of the module is skipped>



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## 9.3.6 Constant Definitions

```
9.3.6 Constant Definitions  
-- *****  
--  
-- Constant definitions  
--  
-- *****
```

<Editor's note: The rest of the module is skipped>

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## 9.3.7 Container Definitions

```
9.3.7 Container Definitions  
-- *****  
--  
-- Container definitions  
--  
-- *****
```

<Editor's note: The rest of the module is skipped>

## 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 169r2**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

list expected approval meeting # here ↑

for approval  
for information

<b>X</b>

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:**

22/8/2000

**Subject:**

Correction to Burst Type IE and Midamble Shift IE in TDD messages

**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:**

This CR proposes to :

1. Merge *Burst Type IE* and *Midamble Shift IE* in order to align RAN WG3 specifications with RAN WG2 specifications in TS25.331.
2. Introduces a choice for midamble mode in order to align with RAN WG1 specifications in TS25.221.
3. A third burst type for UL TDD transmissions has been introduced in WG1 for handover between unsynchronised cells. The IE "Burst Type" is extended to support configuration of this burst type in NodeB.

**Clauses affected:**

8.3.4, 9.1, 9.2, 9.3.3, 9.3.4

**Other specs**

Other 3G core specifications

<b>X</b>

→ List of CRs: TS 25.433 CR199r1  
TS 25.331 CR480  
TS 25.221 CR031

**affected:**

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

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

**Other comments:**

This revised CR includes and therefore supersedes the changes proposed in CR172 to 25.423 (inclusion of burst type 3).

## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

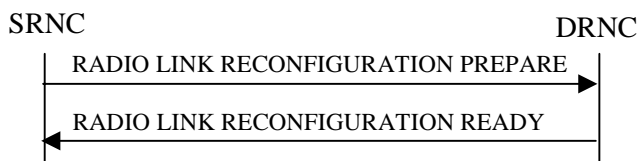
### 8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a DRNS.

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

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

### 8.3.4.2 Successful Operation



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

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

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

#### **DCH Modification:**

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

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

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

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

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

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a DCHs to *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.

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]. 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 - 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 *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 use Limited Power Increase 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* or *Puncture limit IE* the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

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

#### [TDD – UL/DL CCTrCH Addition]

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

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

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

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

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

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

#### **Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

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

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

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

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

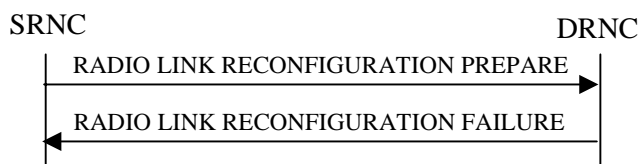
The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

### 8.3.4.3 Unsuccessful Operation



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

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

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

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

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings.

#### Protocol Causes:

- Transaction not Allowed.

#### Miscellaneous Causes:

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

### 8.3.4.4 Abnormal Conditions

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



## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				-	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the <b>RL Information</b> .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
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 CCTrCH Information</b>		<i>0..&lt;maxno of CCTrCHs&gt;</i>		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>		<i>0..&lt;maxno of CCTrCHs&gt;</i>		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>DCH Information</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxno of DCHs&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	M				–	
<b>DSCH Information</b>		<i>0 to &lt;maxno of DSCHs&gt;</i>			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>		<i>0 to &lt;maxnoof USCHs&gt;</i>			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>		<i>1 to &lt;maxnoof RB&gt;</i>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>RL Information</b>		<i>1</i>			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>		<i>0..&lt;maxno ofDLts&gt;</i>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

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

## 9.1.4 RADIO LINK SETUP RESPONSE

### 9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	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		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
<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				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>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		–	
>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..<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	–	

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

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



## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	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		–	
>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 Interference Level	M		9.2.1.68		–	
>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		–	
<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>		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<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>		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<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 ofneighbouringRNCs&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;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		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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 ofTDDneigh hbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink 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.

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

## 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		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>>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		–	
>>>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	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		–	
>>>DSCH Information Response		0..<maxno ofDSCHs>			GLOBAL	ignore
>>>>DSCH ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>> <b>Neighbouring Cell Information</b>	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		–	
>>>> <b>Per FDD Cell Information</b>		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		–	
>>>> <b>Per TDD Cell Information</b>		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 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
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	Ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

### 9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
CHOICE <i>cause level</i>						
> <i>General</i>					Yes	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					Yes	ignore
>> <b>Unsuccessful RL Information Response</b>		1			YES	ignore
>>> <i>RL ID</i>	M		9.2.1.49		-	
>>> <i>Cause</i>	M		9.2.1.5		-	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

## 9.1.6 RADIO LINK ADDITION REQUEST

## 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	reject
<b>RL Information</b>		<i>1..&lt;maxnoofRLs-1&gt;</i>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40			
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Active Pattern Sequence Information	O			Either all the already active Transmission Gap Sequence(s) are addressed (Transmission Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject

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

## 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	
> <b>Time slot ISCP Info</b>		0..<maxnoofDLts>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

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



## 9.1.7 RADIO LINK ADDITION RESPONSE

## 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
> <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		–	
>>TFCl 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>						
>>Combining					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore
>>> <b>DCH Information Response</b>		<i>1..&lt;maxnoof DCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		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		–	
> <b>Neighbouring Cell Information</b>		<i>0..&lt;maxnoof neighbouring RNCs&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]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
<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>		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<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>		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>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
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoofDCHs>		Only one DCH per set of co-ordinated	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				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		–	
<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			DSCH priority indicator	–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxNb MAC- c/shSDU Length>			–	
>>>>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 USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
<b>&gt;&gt;CHOICE Diversity Indication</b>					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>		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		–	
<b>&gt;&gt;Per FDD Cell Information</b>		0..<maxnoof FDDneighbo urs>			–	
>>>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.	–	

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

## 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		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>>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		–	
>>>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	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		–	
>>>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		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxnoof FDDneighbors&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 TDDneighbors&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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



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

### 9.1.8.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
> <i>General</i>					Yes	ignore
>>Cause	M					
> <i>RL specific</i>					Yes	ignore
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

### 9.1.9 RADIO LINK DELETION REQUEST

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

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

### 9.1.10 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

## 9.1.11 RADIO LINK RECONFIGURATION PREPARE

## 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling Code	O		9.2.2.53		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69		–	
>Min UL Channelisation Code Length	O		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	O		9.2.1.46	For the UL.	–	
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		9.2.2.52		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S-Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>DL DPCH Slot Format	O		9.2.2.9		–	
>Number of DL channelisation codes	O				–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>MultiplexingPosition	O		9.2.2.26		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		0..<maxnoof 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..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>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	M		9.2.2.34		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCH to modify</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		0..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	O					
>>Transport Format Set	O			For DSCH	–	
>>Allocation/Retention Priority	O				–	
>>Scheduling Priority Indicator	O				–	
>>BLER	O				–	
>PDSCH RL ID	O		RL ID		–	
>Transport Format Combination Set	O			For DSCH	–	
<b>DSCH to add</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>Transport Format Combination Set	M			For DSCH	–	
<b>DSCHs to delete</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
<b>RL Information</b>		0..<maxnoof RLS>			EACH	reject
>RL ID	M		9.2.1.49		–	
>SSDT Indication	O		9.2.2.41		–	
>SSDT Cell Identity	C - SSSTIndON		9.2.2.40		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

<b>Condition</b>	<b>Explanation</b>
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.

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

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCH to add</b>		0..<maxno of CCHs>		For DCH and USCH	EACH	notify
>CCH 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 CCH to modify</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>UL CCH to delete</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
<b>DL CCH to add</b>		0..<maxno of CCHs>		For DCH and DSCH	EACH	notify
>CCH 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>DL CCH to modify</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>DL CCH to delete</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCH ID	O		9.2.3.2	UL CCH in which the DCH is mapped.	–	
>>CCH ID	O		9.2.3.2	DL CCH 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		–	

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
		<i>ofDSCHs</i> >				
>DSCH ID	M				–	
<b>USCHs to Modify</b>		<i>0..&lt;maxno ofUSCHs</i> >			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 <maxnoof RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>USCHs to Add</b>		<i>0..&lt;maxno ofUSCHs</i> >			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 <maxnoof RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>USCHs to Delete</b>		<i>0..&lt;maxno ofUSCHs</i> >			GLOBAL	reject
>USCH ID	M				–	

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

## 9.1.12 RADIO LINK RECONFIGURATION READY

## 9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		0..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
<b>&gt;Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
<b>&gt;&gt;FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
<b>&gt;&gt;Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
<b>&gt;&gt;&gt;Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
<b>&gt;Downlink Code Information</b>		0..<maxno ofDLCode s>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
<b>&gt;DCH Information Response</b>		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall	GLOBAL	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				be included. The IE group shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		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		–	
<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..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;UL DPCH to be modified</b>		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	O				–	
>>>Burst Type	O				–	
>>>Midamble Shift and Burst Type	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>>Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
<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..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.4		–	
>>>Midamble Shift and Burst Type	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>> Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;&gt;DL DPCH to be</b>		0..<maxnoof			GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>modified</b>		<i>DPCHs</i> >				
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	O				–	
>>>Burst Type	⊖				–	
>>>Midamble Shift <u>and</u> Burst Type	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>> Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
<b>&gt;&gt;DL DPCH to be deleted</b>		<i>0..&lt;maxnoof DPCHs&gt;</i>			GLOBAL	ignore
>>>DPCH ID	M				–	
<b>&gt;DCH Information Response</b>		<i>0..&lt;maxnoof DCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.  The IE group shall be included only once per DCH per set of combined RLS.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
<b>&gt;DSCH to be Added or Modified</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			DSCH priority indicator	–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		<i>1..&lt;MaxNbMAC-c/shSDULength&gt;</i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
<b>&gt;USCH to be Added or Modified</b>		<i>0.. &lt;Maxnoof USCHs&gt;</i>			GLOBAL	ignore
>>USCH ID	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.

### 9.1.13 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
CFN	M		9.2.1.9		YES	ignore
Active Pattern Sequence Information	O				YES	ignore

### 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>>Cause	M		9.2.1.5		YES	ignore
>>RLs Causing Reconfiguration Failure		0..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for a UE.

### 9.1.15 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

## 9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the UL.	-	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	-	
>TFCI Signalling Mode	O		9.2.2.46		-	
>Limited Power Increase	O		9.2.1.33		-	
<b>DCHs to Modify</b>		0..<maxno ofDCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		-	
>ToAWS	M		9.2.1.58		-	
>ToAWE	M		9.2.1.57		-	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			-	
>>DCH ID	M		9.2.1.16		-	
>>Transport Format Set	O		9.2.1.64	For the UL.	-	
>>Transport Format Set	O		9.2.1.64	For the DL.	-	
>>Allocation/Retention Priority	O		9.2.1.1		-	
>>Frame Handling Priority	O		9.2.1.29		-	
>>DRAC Control	O		9.2.2.13		-	
<b>DCHs to add</b>		0..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		-	
>UL FP Mode	M		9.2.1.67		-	
>ToAWS	M		9.2.1.58		-	
>ToAWE	M		9.2.1.57		-	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			-	
>>DCH ID	M		9.2.1.16		-	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		-	
>>Transport Format Set	M		9.2.1.64	For the UL.	-	
>>Transport Format Set	M		9.2.1.64	For the DL.	-	
>>BLER	M		9.2.1.3	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	M		9.2.2.34		-	
>>DRAC Control	M		9.2.2.13		-	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		-	
Transmission Gap Pattern Sequence Information	O				YES	reject

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

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCTrCH Information to modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>UL CCTrCH Information to delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH Information to modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>DL CCTrCH Information to delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxnoof DCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	

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

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



## 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		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		–	
<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
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>DL Code Information		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

## 9.1.18 RADIO LINK FAILURE INDICATION

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

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

## 9.1.19 RADIO LINK RESTORE INDICATION

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

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

## 9.1.20 DL POWER CONTROL REQUEST [FDD]

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

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

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

## 9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

### 9.1.21.1 FDD Message

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

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

## 9.1.21.2 TDD Message

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

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

## 9.1.22 PHYSICAL CHANNEL RECONFIGURATION COMMAND

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CFN	M		9.2.1.9		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

### 9.1.23 PHYSICAL CHANNEL RECONFIGURATION FAILURE

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

### 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

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

Range bound	Explanation
MaxRNCinURA	Maximum number of RNC in one URA

### 9.1.25 DOWNLINK SIGNALLING TRANSFER REQUEST

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

## 9.1.26 RELOCATION COMMIT

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

## 9.1.27 PAGING REQUEST

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

## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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

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

## 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

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

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

## 9.1.30 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore
Cause	M		9.2.1.5		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore



## 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL-ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3		–	
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>>"Measurement not Available"		NULL			YES	ignore
>"RLS" or "ALL RLS"					YES	ignore
>>RL Set Information		1..<maxnoofRLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		–	
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>>"Measurement not Available"		NULL				
CFN	O		9.2.1.9	Dedicated Measurement Time Reference	YES	ignore

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

## 9.1.32 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore

## 9.1.33 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore
Cause	M		9.2.1.5		YES	ignore

## 9.1.34 COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST

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

## 9.1.35 COMMON TRANSPORT CHANNEL RESOURCES REQUEST

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

## 9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

## 9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	O				YES	ignore
<b>FACH Info for UE Selected S-CCPCH</b>		0..1			YES	ignore
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		–	
<b>&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnofMACcshSDUlengthsp erPriority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>FACH Info for DRNC Selected S-CCPCH</b>		0..1			YES	ignore
>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$ , see ref. [7]	–	
>DL Scrambling Code	M		9.2.2.8		–	
>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>Multiplexing Position	M		9.2.2.26		–	
>STTD Indicator	M		9.2.2.44		–	
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		–	
<b>&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnofMACcshSDUlengthsp erPriority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>RACH Info for DRNC Selected PRACH</b>		0..1			YES	ignore
>Preamble Signatures	M				–	
>RACH Minimum Spreading Factor	M				–	
>Scrambling Code	M				–	

Number						
>Puncture Limit	M				-	
>RACH Sub channel Numbers	M				-	
URA ID	O				YES	ignore
Multiple URAs Indicator	O				YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		<i>0.. &lt;MaxRNCi nURA-1&gt;</i>			GLOBAL	ignore
>RNC-Id	M				-	
Transport Layer Address	O		9.2.1.62		YES	ignore
Binding Identity	O		9.2.1.3		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

## 9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	ignore
C-RNTI	O				YES	ignore
<b>FACH Info for UE Selected S-CCPCHs</b>		1			YES	ignore
<b>&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		–	
<b>&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnoofMACcshSDUlengthsperPriority>			GLOBAL	ignore
>>>MAC-c/sh SDU Length	M		9.2.1.34		–	
>>FACH Initial Window Size	M		9.2.1.27		–	
<b>FACH Info for DRNC Selected group of S-CCPCHs</b>		0..1			YES	ignore
>TFCS	M		9.2.1.63	For DL CCTrCH supporting several Secondary CCPCHs	–	
<b>&gt;Secondary CCPCH</b>	M	1..<MaxnoofS CCPCHs>			GLOBAL	ignore
>>TDD Channelisation Code	M		9.2.2.8		–	
>>Time Slot	M		9.2.1.56		–	
>>>Burst Type	M		9.2.3.1		–	
>>Midamble shift and Burst Type	M		9.2.3.4		–	
>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>Repetition Period	M		9.2.3.7		–	
>>Repetition Length	M		9.2.3.6		–	
<b>&gt;&gt;Priority Indicator &amp; Initial Window Size</b>		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>>FACH Priority Indicator	M		Scheduling Priority Indicator 9.2.1.28		–	
<b>&gt;&gt;&gt;MAC-c/sh SDU Length</b>		1..<MaxnoofMACcshSDUlengthsperPriority>			GLOBAL	ignore
>>>>MAC-c/sh SDU Length	M		9.2.1.34		–	

>>>FACH Initial Window Size	M		9.2.1.27		–	
<b>RACH Info for DRNC Selected PRACH</b>		0..1			YES	ignore
>TDD Channelisation Code	M				–	
>Time Slot	M				–	
>PRACH Midamble	O				–	
URA ID	O				YES	ignore
Multiple URAs Indicator	O				YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCinURA-1>			GLOBAL	ignore
>RNC-Id	M				–	
Transport Layer Address	O		9.2.1.62		YES	ignore
Binding Identity	O		9.2.1.3		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

### 9.1.37 COMMON TRANSPORT CHANNEL RESOURCES FAILURE

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

### 9.1.38 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Active Pattern Sequence Information	M				YES	ignore

### 9.1.39 ERROR INDICATION

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

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

### 9.2.3.1 Burst Type Void

Defines the burst type of the physical channel, see ref. [12].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Burst Type			ENUMERATED (Type1, Type2)	

### 9.2.3.2 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CCTrCH ID			INTEGER (0..15)	

### 9.2.3.3 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DPCH ID			INTEGER (0..239)	

### 9.2.3.4 Midamble Shift and Burst Type

~~Different bursts transmitted simultaneously, using the same midamble code shall use different Midamble Shifts.~~

This information element indicates burst type and midamble allocation.

~~The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts. Three different midamble allocation schemes exist:~~

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

Common midamble: the midamble shift is chosen by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<u>CHOICE Burst Type</u>				
<u>&gt;Type 1</u>				
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, Common midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>Integer(0..15)</u>	
<u>&gt;Type 2</u>				
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, Common midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>INTEGER (0..45)</u>	
<u>&gt;Type 3</u>				<u>UL only</u>
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>Integer(0..15)</u>	

<u>Condition</u>	<u>Explanation</u>
<u>C-UE</u>	<u>This information element is only sent when the value of the "Midamble Allocation Mode" IE is "UE-specific midamble".</u>



### 9.3.3 PDU Definitions

```

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

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

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopMode1-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    Closedlooptimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    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,  
ISCP,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrOfUL-DPCHs,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftMidambleShiftAndBurstType,  
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,  
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-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
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-InterferenceLevel,  
UL-SIR,  
UL-FP-Mode,  
UL-ScramblingCode,  
URA-ID,  
USCH-ID  
FROM RNSAP-IEs

--- partly omitted ---

```

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

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

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    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,
    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,
    ul-InterferenceLevel UL-InterferenceLevel,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD

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

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

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

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

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

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

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

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

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

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

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

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

```



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

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

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

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

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

--- partly omitted ---

```

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition
    GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot
    UL-InterferenceList-RL-AdditionRspTDD,
    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,
    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,
    ul-InterferenceLevel
    UL-InterferenceLevel,
    iE-Extensions        ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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-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,
  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-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}

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

```

```
}  
  
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD  
  
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
    uSCH-ID                USCH-ID,  
    diversityIndication    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 ::= {  
    ...  
}  
  
--- partly omitted ---
```

```

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

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

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

RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR          OPTIONAL,
    min-UL-SIR           UL-SIR          OPTIONAL,
    ul-CCTrCH-Information UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    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-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

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

UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCtRch-ID           CCTrCH-ID,
    ul-DPCH-AddInformation UL-DPCH-InformationAddList-RL-ReconfReadyTDD OPTIONAL,
    ul-DPCH-ModifyInformation UL-DPCH-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
    ul-DPCH-DeleteInformation UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD OPTIONAL,
}

```



```

    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}

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

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfReadyTDD

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType,
    timeSlot                TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

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

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode          OPTIONAL,
    burstType BurstType OPTIONAL,
    midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType OPTIONAL,
    timeSlot                TimeSlot          OPTIONAL,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset    OPTIONAL,

```

```

    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tFCI-Presence             TFCI-Presence             OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

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

UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-ReconfReadyTDD          ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

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

DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-AddInformation    DL-DPCH-InformationAddList-RL-ReconfReadyTDD          OPTIONAL,
    dl-DPCH-ModifyInformation DL-DPCH-InformationModifyList-RL-ReconfReadyTDD      OPTIONAL,
    dl-DPCH-DeleteInformation DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD      OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

```

```

}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}

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

DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfReadyTDD

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID          DPCH-ID,
  tDD-ChannelisationCode  TDD-ChannelisationCode,
  burstType BurstType,
  midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType,
  timeSlot        TimeSlot,
  tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  repetitionPeriod  RepetitionPeriod,
  repetitionLength  RepetitionLength,
  tFCI-Presence     TFCI-Presence,
  iE-Extensions     ProtocolExtensionContainer { {DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

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

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID          DPCH-ID,
  tDD-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
  burstType BurstType OPTIONAL,
  midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType  OPTIONAL,
  timeSlot        TimeSlot  OPTIONAL,
  tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
  repetitionPeriod  RepetitionPeriod  OPTIONAL,
  repetitionLength  RepetitionLength  OPTIONAL,
  tFCI-Presence     TFCI-Presence  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { {DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

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

DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

DCH-InformationResponseListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyTDD

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

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

DSCHToBeAddedOrModified-RL-ReconfReadyTDD                ::= ProtocolIE-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD    CRITICALITY ignore    TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD    PRESENCE
    mandatory },
    ...
}

```

```

}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

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

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Container { {USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD  PRESENCE
    mandatory },
    ...
}

USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
--- partly omitted ---
```

```

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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

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

RL-Information-PhyChReconfRqstTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    ul-CCTrCH-Information          UL-CCTrCH-InformationList-PhyChReconfRqstTDD,
    dl-CCTrCH-Information          DL-CCTrCH-InformationList-PhyChReconfRqstTDD,
    iE-Extensions                ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

UL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD  CRITICALITY reject  TYPE UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD  PRESENCE
    mandatory  } ,
    ...
}

UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-PhyChReconfRqstTDD

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

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

UL-DPCH-InformationList-PhyChReconfRqstTDD ::= DPCH-IE-ContainerList {{UL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}

```

```

UL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationItem-PhyChReconfRqstTDD    CRITICALITY notify TYPE UL-DPCH-InformationItem-PhyChReconfRqstTDD    PRESENCE mandatory },
  ...
}

```

```

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

```

```

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

```

```

DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }

```

```

DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD    CRITICALITY reject TYPE DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD    PRESENCE
  mandatory } ,
  ...
}

```

```

DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRqstTDD

```

```

DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  cCCTrCH-ID                CCTrCH-ID,
  dl-DPCH-Information        DL-DPCH-InformationList-PhyChReconfRqstTDD,
  iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

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

```

```

DL-DPCH-InformationList-PhyChReconfRqstTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-PhyChReconfRqstTDD} }

```

```

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

```

```

DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,

```



tDD-ChannelisationCode	TDD-ChannelisationCode	OPTIONAL,	
<del>burstType</del>	<del>BurstType</del>	<del>OPTIONAL,</del>	
<del>midambleShift</del>	<del>MidambleShift</del>		OPTIONAL,
<del>midambleShiftAndBurstType</del>	<del>MidambleShiftAndBurstType</del>		
timeSlot	TimeSlot	OPTIONAL,	
tDD-PhysicalChannelOffset	TDD-PhysicalChannelOffset	OPTIONAL,	
repetitionPeriod	RepetitionPeriod	OPTIONAL,	
repetitionLength	RepetitionLength	OPTIONAL,	
tFCI-Presence	TFCI-Presence	OPTIONAL,	
iE-Extensions	ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} }	OPTIONAL,	
	...		
}			

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

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

--- partly omitted ---

```

-- *****
--
-- 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-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-Container {{ MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD }}

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

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

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

MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    dl-TFCS                        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-Container {{ SecondaryCCPCHListIEs-CTCH-ResourceRspTDD }}

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

```

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

```
SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
  tDD-ChannelisationCode          TDD-ChannelisationCode,
  timeSlot                        TimeSlot,
  burstType                      BurstType,
  midambleShiftmidambleShiftAndBurstType,          MidambleShiftMidambleShiftAndBurstType,
  tDD-PhysicalChannelOffset       TDD-PhysicalChannelOffset,
  repetitionPeriod                RepetitionPeriod,
  repetitionLength                RepetitionLength,
  priorityIndicatorAndInitialWindowSizeList-option  PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD,
  iE-Extensions                   ProtocolExtensionContainer { {SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

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

```
PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD }}
```

```
PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
    PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD PRESENCE mandatory },
  ...
}
```

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

--- partly omitted ---

## 9.3.4 Information Element Definitions

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

-- B

BetaCD ::= INTEGER (0..15)

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

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

Block-STTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

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

--- partly omitted ---
```

```
-- M

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

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

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

MaxTFCIvalue              ::= INTEGER (1..1023)

MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

MeasurementFilterCoefficient ::= ENUMERATED{k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19}
-- Measurement Filter Coefficient to be used for measurement

MeasurementID              ::= INTEGER (0..1048575)

Multi-code-info            ::= INTEGER (1..16)

MultipleURAsIndicator ::= ENUMERATED {
    multiple-URAs-exist,
    single-URA-exists
}

AdjustmentPeriod           ::= INTEGER(1..300)
-- Unit Frame

ScaledAdjustmentRatio      ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

MaxAdjustmentStep          ::= INTEGER(1..10)
-- Unit Slot

MeasurementChangeTime      ::= INTEGER (1..6000)
-- The MeasurementChangeTime gives the MeasurementChangeTime
-- in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10 ms

MeasurementHysteresisTime  ::= INTEGER (1..6000)
-- The MeasurementHysteresisTime gives the
-- MeasurementHysteresisTime in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10ms

MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    sir                    SIR-Value-IncrDecrThres,
    sir-error              SIR-Error-Value-IncrDecrThres,
```

```

    transmitted-code-power      Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                         RSCP-Value-IncrDecrThres,
    round-trip-time              Round-Trip-Time-IncrDecrThres,
    ...
}

```

```

MeasurementThreshold ::= CHOICE {
    sir                     SIR-Value,
    sir-error               SIR-Error-Value,
    transmitted-code-power  Transmitted-Code-Power-Value,
    rscp                    RSCP-Value,
    round-trip-time         Round-Trip-Time-Value,
    rx-timing-deviation     Rx-Timing-Deviation-Value,
    ...
}

```

```

MidambleShift ::= INTEGER (0..15)

```

```

MidambleShiftAndBurstType ::= CHOICE {
    type1 CHOICE {
        defaultMidamble NULL,
        commonMidamble  NULL,
        ueSpecificMidamble MidambleShiftLong
    },
    type2 CHOICE {
        defaultMidamble NULL,
        commonMidamble  NULL,
        ueSpecificMidamble MidambleShiftShort
    },
    type3 CHOICE {
        defaultMidamble NULL,
        ueSpecificMidamble MidambleShiftLong
    }
}

```

```

MidambleShiftLong ::= INTEGER (0..15)

```

```

MidambleShiftShort ::= INTEGER (0..5)

```

```

MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
}

```

```

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

```





## 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 171r1**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**  
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:** August 2000

**Subject:** BER at UL DTX for TDD

**Work item:**

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

**Reason for change:** BER at uplink DTX for TDD was an open issue. This CR adds procedure text to clarify the DRNS behaviour in this case. This includes the WG1 decision to eliminate physical channel BER

**Clauses affected:** 8.3.1.2, 8.3.4.2, 8.3.7.2, 9.1.3, 9.1.11, 9.1.16, 9.3

<b>Other specs</b>	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs: 25.225CR16, 25.427CR32, 25.435CR28, 25.433CR203
<b>affected:</b>	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:
	MS test specifications	<input type="checkbox"/>	→ List of CRs:
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:
	O&M specifications	<input type="checkbox"/>	→ List of CRs:

**Other comments:**

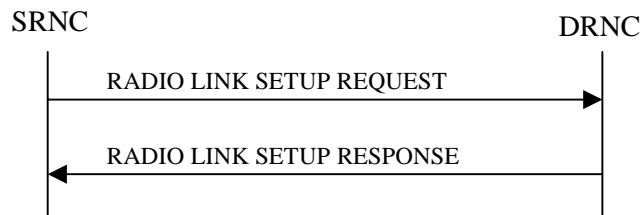
## 8.3.1 Radio Link Setup

### 8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

### 8.3.1.2 Successful Operation



**Figure 1: Radio Link Setup procedure: Successful Operation**

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific RRC connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request setup of the radio link(s).

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

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

[FDD - The *Diversity Control Field IE* indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not on the Iur. If the *Diversity Control Field IE* is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field IE* is set to "Must", the DRNS shall combine the RL with one of the other RL. When an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

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

[FDD - If the *Initial DL TX Power IE* and *Uplink SIR Target IE* are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value.]

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

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

[FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with  $DPC\_MODE=0$  and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved for the concerning RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3). ]

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

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

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

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

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the new DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used when those are activated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

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

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

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

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

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

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

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the Diversity Indication that the RL is combined with another RL. In this case the Reference *RL ID* IE

shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL.]

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

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

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

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

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

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

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

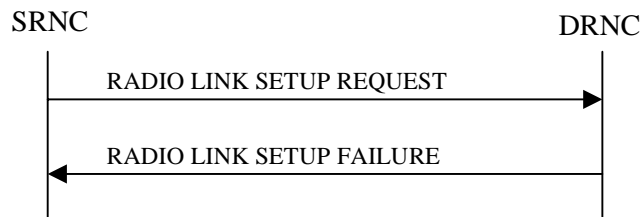
Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

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

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

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

### 8.3.1.3 Unsuccessful Operation



**Figure 2: Radio Link Setup procedure: Unsuccessful Operation**

In unsuccessful case (i.e. one or more RLs can not be setup) the RADIO LINK SETUP FAILURE message shall be sent to the SRNC, indicating the reason for failure. If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected" [[TDD – or no DCH of a set of co-ordinated DCHs has the \*QE-Selector\* IE set to “selected”](#)] the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

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

[FDD - If the value of the *Diversity Control Field* IE of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK SETUP FAILURE message].

[FDD – When the *Diversity Mode* IE equals “Closed loop mode1” or “Closed loop mode2” and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value “No Closed Loop Timing Adjustment Mode configured”].

Typical cause values are:

#### Radio Network Layer Causes:

- [FDD - UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- [FDD - Combining Resources not available];
- Requested Configuration not Supported;
- Cell not Available;
- [FDD - No Closed Loop Timing Adjustment Mode configured];
- Power Level not Supported;
- Invalid CM Settings.

#### Transport Layer Causes:

- Transport Link Failure

#### Protocol Causes:

- Transaction not Allowed

#### Miscellaneous Causes:

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

#### 8.3.1.4 Abnormal Conditions

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

## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

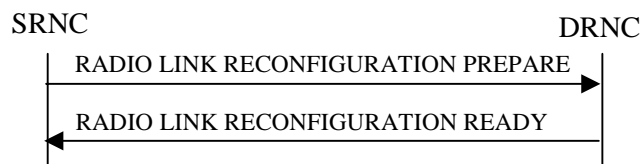
### 8.3.4.1 General

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 3: 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 - 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 *UL DPCCCH Structure IE*, group the DRNS shall apply the new Uplink DPCCCH Structure to the new configuration.]

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the DRNS shall use Limited Power Increase 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* or *Puncture limit IE* the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

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

#### [TDD – UL/DL CCTrCH Addition]

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

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

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

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

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

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

#### **Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

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

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

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

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

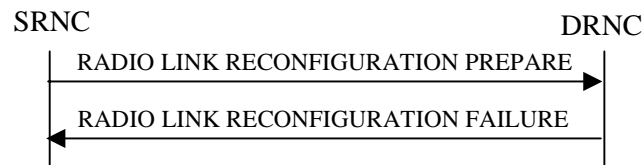
The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

### 8.3.4.3 Unsuccessful Operation



**Figure 4: 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.

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings.

#### Protocol Causes:

- Transaction not Allowed.

#### Miscellaneous Causes:

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

### 8.3.4.4 Abnormal Conditions

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

## 8.3.7 Unsynchronised Radio Link Reconfiguration

### 8.3.7.1 General

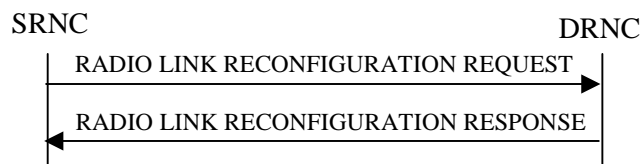
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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 5: 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 use Limited Power Increase 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.

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

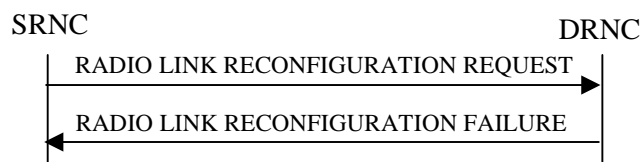
In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

#### Compressed Mode Preparation:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]

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

### 8.3.7.3 Unsuccessful Operation



**Figure 6: Unsyncronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

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

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

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s) the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

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

Typical cause values are:

**Radio Network Layer Causes:**

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Setting.

**Protocol Causes:**

- Transaction not Allowed.

**Miscellaneous Causes:**

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

#### 8.3.7.4 Abnormal Conditions

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



## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	M		<a href="#">9.2.2.34</a> <a href="#">9.2.1.46A</a>		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the <b>RL Information</b> .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
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 CTrCH Information</b>		<i>0..&lt;maxno of CTrCHs&gt;</i>		For DCH and USCH	EACH	notify
>CTrCH 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 CTrCH Information</b>		<i>0..&lt;maxno of CTrCHs&gt;</i>		For DCH and DSCH	EACH	notify
>CTrCH 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>DCH Information</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxno of DCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	
>>CTrCH ID	M		9.2.3.2	UL CTrCH in which the DCH is mapped	–	
>>CTrCH ID	M		9.2.3.2	DL CTrCH 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	<a href="#">MC-CoorDCH</a>		<a href="#">9.2.1.46A</a>		–	
<b>DSCH Information</b>		<i>0 to &lt;maxno of DSCHs&gt;</i>			GLOBAL	reject
>DSCH ID	M				–	
>CTrCH ID	M			DL CTrCH 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>		<i>0 to &lt;maxnoof USCHs&gt;</i>			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>		<i>1 to &lt;maxnoof RB&gt;</i>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>RL Information</b>		<i>1</i>			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>		<i>0..&lt;maxno ofDLts&gt;</i>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

<u>Condition</u>	<u>Explanation</u>
<a href="#">CoorDCH</a>	<a href="#">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)</a>

<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 RADIO LINK RECONFIGURATION PREPARE

## 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling Code	O		9.2.2.53		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69		–	
>Min UL Channelisation Code Length	O		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	O		9.2.1.46	For the UL.	–	
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		9.2.2.52		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S-Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>DL DPCH Slot Format	O		9.2.2.9		–	
>Number of DL channelisation codes	O				–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>MultiplexingPosition	O		9.2.2.26		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		0..<maxnoof 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..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Descriptor						
>>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	M		<a href="#">9.2.1.46A9</a> <a href="#">.2.2.34</a>		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCH to modify</b>		0..1			YES	reject
> <b>DSCH Info</b>		0..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	O					
>>Transport Format Set	O			For DSCH	–	
>>Allocation/Retention Priority	O				–	
>>Scheduling Priority Indicator	O				–	
>>BLER	O				–	
>PDSCH RL ID	O		RL ID		–	
>Transport Format Combination Set	O			For DSCH	–	
<b>DSCH to add</b>		0..1			YES	reject
> <b>DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID		–	
>Transport Format Combination Set	M			For DSCH	–	
<b>DSCHs to delete</b>		0..1			YES	reject
> <b>DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
<b>RL Information</b>		0..<maxnoof RLS>			EACH	reject
>RL ID	M		9.2.1.49		–	
>SSDT Indication	O		9.2.2.41		–	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

<b>Condition</b>	<b>Explanation</b>
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.

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



## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCTrCH to add</b>		0..<maxno of CCTrCHs>		For DCH and USCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>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>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>DL CCTrCH to delete</b>		0..<maxno of CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>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		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<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	<a href="#">C-CoordDCH</a> M		<a href="#">9.2.1.46A</a>		–	
<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				–	
<b>DSCHs to Add</b>		<i>0..&lt;maxno ofDSCHs&gt;</i>			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					

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>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 <maxnoof 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 <maxnoof RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>USCHs to Delete</b>		0..<maxno ofUSCHs>			GLOBAL	reject
>USCH ID	M				–	

<u>Condition</u>	<u>Explanation</u>
<a href="#">CoordCH</a>	<a href="#">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)</a>

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

## 9.1.16 RADIO LINK RECONFIGURATION REQUEST

## 9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		0..<maxno ofDCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13			
<b>DCHs to add</b>		0..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	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	M		<a href="#">9.2.1.46A9</a> <del>2.2.34</del>		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

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

## 9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCTrCH Information to modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>UL CCTrCH Information to delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH Information to modify</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63		–	
<b>DL CCTrCH Information to delete</b>		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxnoof DCHs>			GLOBAL	reject
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	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	<u>C-CoordDCH</u> <del>M</del>		<a href="#">9.2.1.46A</a>		–	
<b>DCHs to Delete</b>		<i>0..&lt;maxnoof DCHs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	

<u>Condition</u>	<u>Explanation</u>
<a href="#">CoordDCH</a>	<a href="#">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)</a>

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





```

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

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

RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY reject TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject TYPE D-RNTI          PRESENCE optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
    { 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-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerList1 { {UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

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

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

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

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

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

```

```

}

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

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    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            CTrCH-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,  
    iSCP                    ISCP,  
    iE-Extensions           ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,  
    ...  
}  
  
Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

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

RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD                CRITICALITY reject  TYPE DCH-ModifyList-RL-ReconfPrepTDD                PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepTDD                    CRITICALITY reject  TYPE DCH-AddList-RL-ReconfPrepTDD                    PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD                 CRITICALITY reject  TYPE DCH-DeleteList-RL-ReconfPrepTDD                 PRESENCE optional } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepTDD                CRITICALITY reject  TYPE DSCH-ModifyList-RL-ReconfPrepTDD                PRESENCE optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepTDD                   CRITICALITY reject  TYPE DSCH-AddList-RL-ReconfPrepTDD                   PRESENCE optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepTDD                CRITICALITY reject  TYPE DSCH-DeleteList-RL-ReconfPrepTDD                PRESENCE optional } |
    { ID id-USCH-ModifyList-RL-ReconfPrepTDD                CRITICALITY reject  TYPE USCH-ModifyList-RL-ReconfPrepTDD                PRESENCE optional } |
    { ID id-USCH-AddList-RL-ReconfPrepTDD                   CRITICALITY reject  TYPE USCH-AddList-RL-ReconfPrepTDD                   PRESENCE optional } |
    { ID id-USCH-DeleteList-RL-ReconfPrepTDD                CRITICALITY reject  TYPE USCH-DeleteList-RL-ReconfPrepTDD                PRESENCE optional },
    ...
}

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

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

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

```

```

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

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

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

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

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

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

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

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

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

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

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

```

```

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

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

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

```



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

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

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

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

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

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

DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD

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

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

```

}

DSCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-AddItem-RL-ReconfPrepTDD

DSCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CCH-TrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SourceStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-ReconfPrepTDD

DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-ReconfPrepTDD

USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID                OPTIONAL,
    ul-ccTrCHID            CCH-TrCH-ID            OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SourceStatisticsDescr 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            CcTrCH-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 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-ContainerList0 { {UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }

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

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

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

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

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    PRESENCE
mandatory    },
    ...
}

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

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

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

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

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

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

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

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

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

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

```

```

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

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    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,
    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 ::= {
    ...
}

```

<h2 style="margin: 0;">CHANGE REQUEST</h2>			Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>TS 25.423</b>	<b>CR 173r1</b>	Current Version: <b>3.2.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team		
For submission to: <b>RAN#9</b> <small>list expected approval meeting # here ↑</small>	For approval <input checked="" type="checkbox"/> For information <input type="checkbox"/>	Strategic <input type="checkbox"/> Non-strategic <input type="checkbox"/>	(for SMG use only)

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

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

**Source:**    **R-WG3**    **Date:**    **08/2000**

**Subject:**    **Higher Layer Signaling to solve downlink CCTrCH power control**

**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:**    The ambiguity in the WG1 specifications pertaining to downlink power control is best solved by explicit signalling of the CCTrCH power control loop. In this signalling each DL CCTrCH is given the UL CCTrCH's which contain the TPC for this CCTrCH.

**Clauses affected:**    **8.3.4, 9.1.3, 9.1.11, 9.3**

<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: <b>25.224 CR 27</b> → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	--	--

**Other comments:**    \_\_\_\_\_



## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

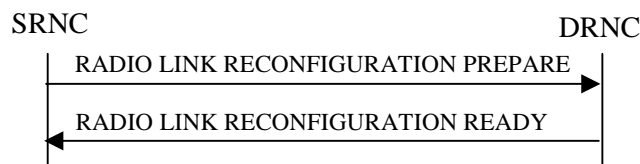
### 8.3.4.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a DRNS.

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

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

### 8.3.4.2 Successful Operation



**Figure 1: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation**

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

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

#### **DCH Modification:**

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes 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 CCPCCH 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.

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]. 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 CCPCCH 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 - 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 *UL DPCCCH Structure IE*, group the DRNS shall apply the new Uplink DPCCCH Structure to the new configuration.]

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the DRNS shall use Limited Power Increase 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*, ~~*or 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 all of the DPCH that have been modified and any of *TDD Channelisation Code IE*, *Burst Type IE*, *Midamble shift IE*, *Time Slot IE*, *TDD Physical Channel Offset IE*, *Repetition Period IE*, *Repetition Length IE*, or *TFCI presence IE* which have been modified in the DPCH to be modified in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

#### [TDD – UL/DL CCTrCH Addition]

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

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

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

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

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

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

#### **Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

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

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

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

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

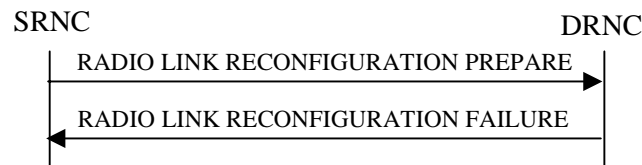
The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

### 8.3.4.3 Unsuccessful Operation



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

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings.

#### Protocol Causes:

- Transaction not Allowed.

#### Miscellaneous Causes:

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

### 8.3.4.4 Abnormal Conditions

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

## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the <b>RL Information</b> .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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



## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
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 CTrCH Information</b>		0..<maxno of CTrCHs>		For DCH and USCH	EACH	notify
>CTrCH 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 CTrCH Information</b>		0..<maxno of CTrCHs>		For DCH and DSCH	EACH	notify
>CTrCH 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		–	
<a href="#">&gt;TPC CTrCH List</a>		1 to <maxnoC CTrCH>		<a href="#">List of uplink CTrCH which provide TPC</a>	=	
<a href="#">&gt;&gt;TPC CTrCH ID</a>	M		<a href="#">CTrCH ID 9.2.3.2</a>		=	
<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		–	
>>CTrCH ID	M		9.2.3.2	UL CTrCH in which the DCH is mapped	–	
>>CTrCH ID	M		9.2.3.2	DL CTrCH 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	M				–	
<b>DSCH Information</b>		0 to <maxno of DSCHs>			GLOBAL	reject
>DSCH ID	M				–	
>CTrCH ID	M			DL CTrCH	–	

				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>		<i>0 to &lt;maxnoof USCHs&gt;</i>			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>		<i>1 to &lt;maxnoof RB&gt;</i>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
<b>RL Information</b>		<i>1</i>			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>		<i>0..&lt;maxno ofDLts&gt;</i>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

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

## 9.1.11 RADIO LINK RECONFIGURATION PREPARE

## 9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling Code	O		9.2.2.53		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69		–	
>Min UL Channelisation Code Length	O		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	O		9.2.1.46	For the UL.	–	
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		9.2.2.52		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S-Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>DL DPCH Slot Format	O		9.2.2.9		–	
>Number of DL channelisation codes	O				–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>MultiplexingPosition	O		9.2.2.26		–	
>Limited Power Increase	O		9.2.1.33		–	
<b>DCHs to Modify</b>		0..<maxnoof 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..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
<b>DCHs to Add</b>		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Descriptor						
>>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	M		9.2.2.34		–	
>>DRAC Control	M		9.2.2.13		–	
<b>DCHs to Delete</b>		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
<b>DSCH to modify</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		0..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	O					
>>Transport Format Set	O			For DSCH	–	
>>Allocation/Retention Priority	O				–	
>>Scheduling Priority Indicator	O				–	
>>BLER	O				–	
>PDSCH RL ID	O		RL ID		–	
>Transport Format Combination Set	O			For DSCH	–	
<b>DSCH to add</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID		–	
>Transport Format Combination Set	M			For DSCH	–	
<b>DSCHs to delete</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
<b>RL Information</b>		0..<maxnoof RLS>			EACH	reject
>RL ID	M		9.2.1.49		–	
>SSDT Indication	O		9.2.2.41		–	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

<b>Condition</b>	<b>Explanation</b>
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.

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

## 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL CCH to add</b>		0..<maxno of CCHs>		For DCH and USCH	EACH	notify
>CCH 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 CCH to modify</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>UL CCH to delete</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
<b>DL CCH to add</b>		0..<maxno of CCHs>		For DCH and DSCH	EACH	notify
>CCH 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		–	
<a href="#">&gt;TPC CCH List</a>		1 to <maxno CCHs>		<a href="#">List of uplink CCH which provide TPC</a>	=	
<a href="#">&gt;&gt;TPC CCH ID</a>	<u>M</u>		<a href="#">CCH ID 9.2.3.2</a>		=	
<b>DL CCH to modify</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<a href="#">&gt;TPC CCH List</a>		0 to <maxno CCHs>		<a href="#">List of uplink CCH which provide TPC</a>	=	
<a href="#">&gt;&gt;TPC CCH ID</a>	<u>M</u>		<a href="#">CCH ID 9.2.3.3</a>		=	
<b>DL CCH to delete</b>		0..<maxno of CCHs>			EACH	notify
>CCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxno of DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>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				–	



<b>Range bound</b>	<b>Explanation</b>
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.

```

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

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

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

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

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

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

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

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

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

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    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,
    ...
}

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,
    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,
    iSCP                  ISCP,
    iE-Extensions          ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

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

```

```

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

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

RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime    CRITICALITY reject    TYPE AllowedQueuingTime
    PRESENCE optional    } |
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE UL-CCTrCH-
    InformationAddList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE UL-CCTrCH-
    InformationModifyList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE UL-CCTrCH-
    InformationDeleteList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CCTrCH-
    InformationAddList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CCTrCH-
    InformationModifyList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CCTrCH-
    InformationDeleteList-RL-ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DCH-ModifyList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DCH-AddList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DCH-AddList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DCH-DeleteList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DSCH-ModifyList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DSCH-AddList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DSCH-AddList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE DSCH-DeleteList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-USCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE USCH-ModifyList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-USCH-AddList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE USCH-AddList-RL-
    ReconfPrepTDD    PRESENCE optional    } |
    { ID id-USCH-DeleteList-RL-ReconfPrepTDD    CRITICALITY reject    TYPE USCH-DeleteList-RL-
    ReconfPrepTDD    PRESENCE optional    },
    ...
}

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

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

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    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-ContainerList0 { {UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {

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```

    { ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD    CRITICALITY notify   TYPE UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD    PRESENCE mandatory },
    ...
}

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

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

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

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

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

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

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

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

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS                TFCS,
    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,
    ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs} }

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

```

```

}

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

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

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

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    ...
}

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                             DCH-ID,
    ul-CCH-ID                          CCH-ID,
    dl-CCH-ID                          CCH-ID,
    trCH-SourceStatisticsDescriptor     TrCH-SourceStatisticsDescriptor,
    ul-TransportFormatSet              TransportFormatSet,
    dl-TransportFormatSet              TransportFormatSet,
    ul-BLER                            BLER,
    dl-BLER                            BLER,
    allocationRetentionPriority         AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                        QE-Selector,
    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                         CCH-ID OPTIONAL,
    trChSourceStatisticsDescriptor       TrCH-SourceStatisticsDescriptor 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 {
    uSCH-ID                USCH-ID                OPTIONAL,
    ul-ccTrCHID            CTrCH-ID                OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet     OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
    bLER                   BLER                    OPTIONAL,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

USCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-AddItem-RL-ReconfPrepTDD

USCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    ul-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

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

USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-
ReconfPrepTDD

```

```
USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

**3GPP TSG-RAN WG3 Meeting #15  
Berlin, Germany, 21-25 Aug 2000**

**Document R3-002084**

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

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.423</b>	<b>CR</b>	<b>174</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN #9</b> <i>list expected approval meeting # here</i> ↑	for approval for information	Current Version: <b>3.2.0</b>
	<input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <i>(for SMG use only)</i>

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:** 8/2000

**Subject:** Renaming of Timeslot ISCP

**Work item:**

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

**Reason for change:** This contribution proposes to rename *Timeslot ISCP IE* (or in some part it is notified as *Time Slot ISCP IE*) to *DL Timeslot ISCP IE* in Radio Link Setup Request message & Radio Link Addition message to clarify the meaning.

**Clauses affected:** 8.3.1.2, 8.3.2.2, 9.1.3.2, 9.1.6.2, 9.2.3.12, 9.3.3, 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
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**Other comments:** This is in line with the usage of terminology in R3-001976.

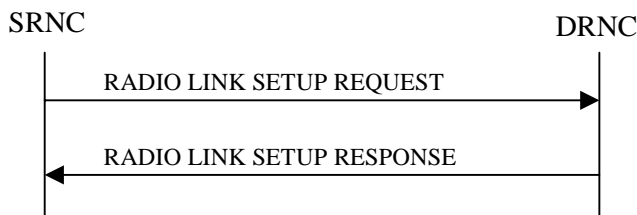
## 8.3.1 Radio Link Setup

### 8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

### 8.3.1.2 Successful Operation



**Figure 1: Radio Link Setup procedure: Successful Operation**

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific RRC connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request setup of the radio link(s).

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

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

[FDD - The *Diversity Control Field IE* indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not on the Iur. If the *Diversity Control Field IE* is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field IE* is set to "Must", the DRNS shall combine the RL with one of the other RL. When an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

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

[FDD - If the *Initial DL TX Power IE* and *Uplink SIR Target IE* are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value.]

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

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

[FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with  $DPC\_MODE=0$  and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is

achieved for the concerning RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3). ]

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

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]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected " the Physical channel BER shall be used for the QE, ref. [4].

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

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the new DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used when those are activated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

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

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

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

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

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

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

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

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

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL.]

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

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

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

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

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

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

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

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

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

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

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

## 8.3.2 Radio Link Addition

### 8.3.2.1 General

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

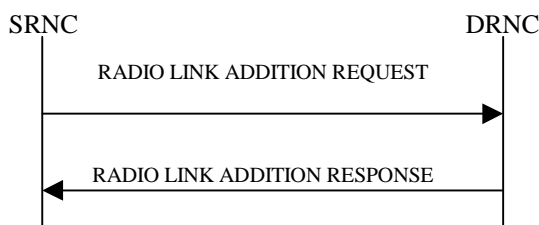
This procedure shall use the signalling bearer connection for the relevant UE context.

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

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

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

### 8.3.2.2 Successful Operation



**Figure 2: Radio Link Addition procedure: Successful Operation**

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

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with DPC\_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

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

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

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

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

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

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

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

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

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

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

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

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the neighbouring cell.

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

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

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



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

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

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

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C-SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				-	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the <b>RL Information</b> .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
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 CCH Information</b>		<i>0..&lt;maxno of CCHs&gt;</i>		For DCH and USCH	EACH	notify
>CCH 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 CCH Information</b>		<i>0..&lt;maxno of CCHs&gt;</i>		For DCH and DSCH	EACH	notify
>CCH 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>DCH Information</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxno of DCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCH ID	M		9.2.3.2	UL CCH in which the DCH is mapped	–	
>>CCH ID	M		9.2.3.2	DL CCH 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	M				–	
<b>DSCH Information</b>		<i>0 to &lt;maxno of DSCHs&gt;</i>			GLOBAL	reject
>DSCH ID	M				–	
>CCH ID	M			DL CCH 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>		<i>0 to &lt;maxnoof USCHs&gt;</i>			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>		<i>1 to &lt;maxnoof RB&gt;</i>		All Radio Bearers using this USCH	-	
>>RB Identity	M				-	
<b>RL Information</b>		<i>1</i>			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>		<i>0..&lt;maxno ofDLts&gt;</i>			-	
>>Time slot	M				-	
>> <a href="#">Time slot ISCPDL Timeslot ISCP</a>	M		<a href="#">9.2.3.12</a>		-	

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

## 9.1.6 RADIO LINK ADDITION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	reject
<b>RL Information</b>		<i>1..&lt;maxnoofRLs-1&gt;</i>			EACH	notify
>RL ID	M		9.2.1.49		-	
>C-Id	M		9.2.1.6		-	
>Frame Offset	M		9.2.1.30		-	
>Chip Offset	M		9.2.2.1		-	
>Diversity Control Field	M		9.2.2.6		-	
>Primary CPICH Ec/No	O		9.2.2.32		-	
>SSDT Cell Identity	O		9.2.2.40			
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		-	
Active Pattern Sequence Information	O			Either all the already active Transmission Gap Sequence(s) are addressed (Transmission Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject

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

### 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		-	
>C-Id	M		9.2.1.6		-	
>Frame Offset	M		9.2.1.30		-	
>Diversity Control Field	M		9.2.2.6		-	
>Primary CCPCH RSCP	O		9.2.3.5		-	
> <b>Time slot ISCP Info</b>		0..<maxnoofDLts>			-	
>>Time slot	M				-	
>> <u>Time slot ISCP</u> <u>DL Timeslot ISCP</u>	M		<u>9.2.3.12</u>		-	

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

### 9.2.3.12 DL Timeslot ISCP

DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [14].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<u>DL</u> Timeslot ISCP			INTEGER (0..91)	According to mapping in <u>[14][24]</u> .



### 9.3.3 PDU Definitions

```

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

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

BEGIN

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

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

```

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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,  
ISCP,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrOfUL-DPCHs,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
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,

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17

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RACH-SubChannelNumbers,  
RANAP-RelocationInformation,  
RB-Identity,  
RL-ID,  
RL-Set-ID,  
RNC-ID,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
S-FieldLength,  
S-RNTI,  
SCH-TimeSlot,  
SAI,  
SN,  
SSDT-CellID,  
SSDT-CellID-Length,  
SSDT-Indication,  
SSDT-SupportIndicator,  
STTD-Indicator,  
STTD-SupportIndicator,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
SyncCase,  
TDD-ChannelisationCode,  
TDD-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
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-InterferenceLevel,  
UL-SIR,

```

    UL-FP-Mode,
    UL-ScramblingCode,
    URA-ID,
    USCH-ID
FROM RNSAP-IEs

```

```

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

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

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

RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY reject TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject TYPE D-RNTI          PRESENCE optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
    { 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-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerList1 { {UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

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

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCCTrCH-ID          CCTrCH-ID,
    ul-TFCS             TFCS,
    tFCI-Coding         TFCI-Coding,

```

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```
    ul-PunctureLimit          PunctureLimit,
    iE-Extensions             ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    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
```

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```
dl-cTrCH-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,
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 ::= {
...
}
```

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```

}

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,
  iSCP          ISCP,
  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 ::= {
  ...
}

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

```

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

```
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,
    primaryCCCH-RSCP     PrimaryCCCH-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-ISCPIItem-RL-AdditionRspTDD
```

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

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

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

```
.
.
.
.
.<Parts of the ASN.1 module is omitted>
.
.
.
```



### 9.3.4 Information Element Definitions

```

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

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- D

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

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    round-trip-time,
    rx-timing-deviation,
    ...
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue     SIR-Error-Value,
    transmittedCodePowerValue  Transmitted-Code-Power-Value,
    rSCP               RSCP-Value, -- TDD only
    roundTripTime      Round-Trip-Time-Value, -- FDD only
    rxTimingDeviationValue  Rx-Timing-Deviation-Value, -- TDD only
    ...
}

DeltaSIR              ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not
}

```

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```
DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closedLoopModel1,
    closedLoopMode2
}

DL-DPCH-SlotFormat ::= INTEGER (0..16)

DL-SIRTarget ::= UL-SIR

DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

D-RNTI ::= INTEGER (0..1048575)

D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}

DL-ScramblingCode ::= INTEGER (0..15)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-TimeslotISCP ::= INTEGER (0..91)
-- According to mapping in [24]

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling
}

DPCH-ID ::= INTEGER (0..239)

DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB

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

DRXCycleLengthCoefficient ::= INTEGER (2..12)
```

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

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

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- I

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

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048}

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

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

| ISCP ::= INTEGER (0..91)
| --- According to mapping in 25.225

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.
```

**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 176r1**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:** Aug. 2000

**Subject:** Correction to FDD DL Channelisation Code Number IE definition

**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:** Currently in the R3 specifications the definition for FDD DL Channelisation Code Number is INTEGER(0..255) with the schematic description "The maximum value is equal to the DL spreading factor -1". Since the maximum value for the DL spreading factor is 512 it is proposed to correct the IE type and reference definition of FDD DL Channelisation Code Number IE.  
 Rev1: TS 25.213 introduced to the References list and in DL Channelisation Code Number IE schematic description Reference to TS 25.213 added.

**Clauses affected:** 9.2.2.14, 9.3.4

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

**Other comments:**



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

---

# 1 Scope

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

---

# 2 References

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

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

- [1] 3G TS 23.003: "Numbering, addressing and identification".
- [2] 3G TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3G TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3G TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] 3G TS xx.yyy: "Specification containing different Identifiers for UMTS (to be identified)".
- [6] 3G TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception".
- [7] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3G TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3G TS 25.212: "Multiplexing and Channel Coding (FDD)".
- [10] UMTS 25.214: "Physical Layer Procedures (FDD)".
- [11] 3G TS 25.215: "Physical Layer – Measurements (FDD)".
- [12] 3G TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3G TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3G TS 25.225: "Physical Layer – Measurements (TDD)".
- [15] 3G TS 25.304: "UE Procedures in Idle Mode".
- [16] 3G TS 25.331: "RRC Protocol Specification".
- [17] 3G TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] X.680 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [20] ITU-T Recommendation X.691 (12/94): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [21] 3G TS 25.213: " Spreading and modulation (FDD)"

- [22] 3G TS 25.224: "Physical Layer Procedures (TDD)"
- [23] 3G TS 25.133: "Requirements for support of Radio Resource management (FDD)".
- [24] 3G TS 25.123: "Requirements for support of Radio Resource management (TDD)".
- [25] 3G TS 23.003: "Universal Graphical Area Description (GAD)".
- [26] 3G TS 25.302: "Services Provided by the Physical Layer".
- [27] 3G TS 25.213: "Spreading and modulation (FDD)".

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

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

## 9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD DL Channelisation Code Number	M		INTEGER(0.. <del>511</del> 255)	<u>According to the mapping in [27].</u>  The maximum value is equal to the DL spreading factor –1

## 9.3.4 Information Element Definitions

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

Text omitted

```
-- F
```

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

```
FDD-DL-ChannelisationCodeNumber ::= INTEGER (0..511255)
-- According to the mapping in [27]. The maximum value is equal to the DL spreading factor -1--
```

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

```
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
    ...
}
```

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

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

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

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



**3GPP TSG-RAN WG3 Meeting #15  
Berlin, Germany, 21-25 Aug 2000**

**Document R3-002259**

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

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>					
<b>25.423</b>	<b>CR</b>	<b>178r1</b>	Current Version: <span style="background-color: #ffff00; padding: 2px;">3.2.0</span>				
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>					
For submission to: <span style="background-color: #ffff00; padding: 2px;">TSG RAN #9</span> <small>list expected approval meeting # here</small>	for approval for information	<table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"> <tr><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;"> </td></tr> </table>	X		strategic <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> non-strategic <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> <small>(for SMG use only)</small>		
X							

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:** Aug. 2000

**Subject:**    Defining of the initial DL transmission power in DRNC

**Work item:**     

<b>Category:</b>	F Correction <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td style="text-align: center;">X</td></tr></table> A Corresponds to a correction in an earlier release <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> B Addition of feature <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> C Functional modification of feature <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> D Editorial modification <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table>	X					<b>Release:</b>	Phase 2 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> Release 96 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> Release 97 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> Release 98 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> Release 99 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td style="text-align: center;">X</td></tr></table> Release 00 <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table>					X	
X														
X														

(only one category shall be marked with an X)

**Reason for change:**    Currently in the Radio Link Setup procedure description is mentioned following requirement concerning the setting of initial DL TX power in DRNS. [FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received.]

Since it is required that either of Initial DL TX Power IE or Primary CPICH Ec/No IE shall be received from SRNC in RL Setup in order to set initial DL TX power in DRNS it is proposed to change the presence of Initial DL TX Power IE and Primary CPICH Ec/No IE from optional to conditional in RADIO LINK SETUP REQUEST message tabular.

Condition is based on the presence of another information element so that either of Initial DL TX Power IE or Primary CPICH Ec/No IE shall be present in RL SETUP REQUEST message.

Rev1. 'At least' was deleted

**Clauses affected:**    9.1.3.1, 9.3.3

<b>Other specs affected:</b>	Other 3G core specifications <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> Other GSM core specifications <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> MS test specifications <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> BSS test specifications <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table> O&M specifications <table border="1" style="border-collapse: collapse; width: 30px; height: 20px;"><tr><td> </td></tr></table>						→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	

Other  
comments:



## 9.1.3 RADIO LINK SETUP REQUEST

## 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C-SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>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	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				-	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	C ifAlone E		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	C ifAlone E		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

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

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

### 9.3.3 PDU Definitions

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

Text omitted

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

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

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

```

-- This IE is present only if Feed Back mode diversity is activated -- ,
sSDT-CellIdLength      SSdT-CellID-Length      OPTIONAL,
s-FieldLength          S-FieldLength          OPTIONAL,
iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  tFCS                  TFCS,
  dl-DPCH-SlotFormat    DL-DPCH-SlotFormat,
  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
    trCH-SrcStatisticsDescr
    ul-transportFormatSet
    dl-transportFormatSet
    ul-BLER
    dl-BLER
    allocationRetentionPriority
    frameHandlingPriority
    qE-Selector
    dRACControl
    iE-Extensions
    ...
}

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

DSCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-Information
    pdSCH-RL-ID
    tFCS
    iE-Extensions
    ...
}

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

DSCH-Info-RL-SetupRqstFDD ::= DSCH-IE-ContainerList {{DSCH-InformationItemIEs-RL-SetupRqstFDD}}

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

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID
    trChSourceStatisticsDescriptor
    transportFormatSet
    allocationRetentionPriority
    schedulingPriorityIndicator
    bLER
    iE-Extensions
    ...
}

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

```



```

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

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

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  rL-ID RL-ID,
  c-ID C-ID,
  firstRLS-indicator FirstRLS-Indicator,
  frameOffset FrameOffset,
  chipOffset ChipOffset,
  propagationDelay PropagationDelay OPTIONAL,
  diversityControlField DiversityControlField OPTIONAL
  -- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
  dl-InitialTX-Power DL-Power OPTIONAL,
  primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL,
  -- Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be present.
  sSDT-CellID SSdT-CellID OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
  iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

```

<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>179r1</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN #9</b>	for approval <input checked="" type="checkbox"/>	Current Version: <b>3.2.0</b>
list expected approval meeting # here ↑	for information <input type="checkbox"/>	strategic <input type="checkbox"/> (for SMG use only)
		non-strategic <input type="checkbox"/>

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:** August 2000

**Subject:** Introduction of SRNC-Id in the RL SETUP REQUEST Message

**Work item:**

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

**Reason for change:** In the current RNSAP specification the intention is to re-use any existing context for a UE if such context exists.

There are two cases where a context may be created for a particular UE in a DRNC (when no context exist previously):

a) At RL Setup

b) At UL Signalling Transfer

In case "b)" the UE provides the U-RNTI (SRNC-Id + S-RNTI) so that the DRNC knows the identity of the UE and can check if there exists a context for the UE previously and if not create a new context for this UE.

In case "a)" the SRNC provides the D-RNTI to the DRNC if a context exists previously. The SRNC also provides the S-RNTI assigned to the UE.

Consequently, if the context is created for the UE in case "a)" then the SRNC-Id is not known to the DRNC.

Assume that a UE utilises dedicated resources in a DRNC, where the context in the DRNC was created by the RL Setup procedure. Assume also that the UE switches (from Cell\_DCH state) to Cell\_FACH state by accesses the DRNC on the CCCH. The DRNC does in this case not know the SRNC-Id when receiving the access from the UE and can consequently not check whether the accessing UE (identified by the U-RNTI) has a context already or not. The same problem exists in the case of RRC Connection Re-establishment in Cell\_DCH state where the UE accesses a cell on the CCCH in order to re-establish the RRC connection.

To avoid this problem this CR introduces the SRNC-Id in the RL SETUP REQUEST message.

**Clauses affected:** 9.1.3, 9.3.3

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

specifications  
MS test specifications  
BSS test specifications  
O&M specifications


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

--

**Other  
comments:**

--

## 9.1.3 RADIO LINK SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<u>SRNC-Id</u>	<u>M</u>		<u>RNC-Id</u> <u>9.2.1.50</u>		<u>YES</u>	<u>reject</u>
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
<b>DL DPCH Information</b>		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
<b>&gt;Power Offset Information</b>		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
<b>DCH Information</b>		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	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	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
<b>DSCH Information</b>		0..1			YES	reject
<b>&gt;DSCH Info</b>		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
<b>RL Information</b>		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the <b>RL Information</b> .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

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

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<u>SRNC-Id</u>	<u>M</u>		<u>RNC-Id</u> <u>9.2.1.50</u>		<u>YES</u>	<u>reject</u>
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 CCH Information</b>		<i>0..&lt;maxno of CCHs&gt;</i>		For DCH and USCH	EACH	notify
>CCH 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 CCH Information</b>		<i>0..&lt;maxno of CCHs&gt;</i>		For DCH and DSCH	EACH	notify
>CCH 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>DCH Information</b>		<i>0..&lt;maxno of DCHs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;maxno of DCHs&gt;</i>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCH ID	M		9.2.3.2	UL CCH in which the DCH is mapped	–	
>>CCH ID	M		9.2.3.2	DL CCH 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	M				–	
<b>DSCH Information</b>		<i>0 to &lt;maxno of DSCHs&gt;</i>			GLOBAL	reject
>DSCH ID	M				–	
>CCH ID	M			DL CCH 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				–	
>>Time slot ISCP	M				–	

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



### 9.3.3 PDU Definitions

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

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

```
BEGIN
```

**<Editor's note: Parts of the module is skipped.>**

```
-- *****
--
-- 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,
    d-FieldLength              D-FieldLength   OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellIdLength          SSDT-CellID-Length   OPTIONAL,
    s-FieldLength              S-FieldLength   OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                        TFCS,
    dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
    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 ::= DSCH-IE-ContainerList {{DSCH-InformationItemIEs-RL-SetupRqstFDD} }

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

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
  transportFormatSet      TransportFormatSet,
  allocationRetentionPriority AllocationRetentionPriority,

```

```

    schedulingPriorityIndicator      SchedulingPriorityIndicator,
    bLER                             BLER,
    iE-Extensions                    ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                 C-ID,
    firstRLS-indicator   FirstRLS-Indicator,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    propagationDelay     PropagationDelay OPTIONAL,
    diversityControlField DiversityControlField OPTIONAL
    -- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power   DL-Power OPTIONAL,
    primaryCPICH-EcNo    PrimaryCPICH-EcNo OPTIONAL,
    sSDT-CellID          SSDT-CellID OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

```

```

    protocolExtensions          ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}}
    ...
}

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

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

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

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

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

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

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    dl-TFCS            TFCS,
    tFCI-Coding        TFCI-Coding,
    dl-PunctureLimit   PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    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,
    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,

```

```
    iSCP                ISCP,
    iE-Extensions       ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

**<Editor's note: The rest of the module is skipped.>**



**TSG-RAN Working Group 3 Meeting #15**  
**Berlin, Germany, 21<sup>st</sup> –25<sup>th</sup> August 2000**

**Document R3-002236**

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 180r1**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:**

August 2000

**Subject:**

Missing Choice Tag in the RL RECONFIGURATION FAILURE Message

**Work item:**

**Category:**

(only one category shall be marked with an X)

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

**Release:**

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

**Reason for change:**

In version 3.2.0 of RNSAP specification a choice has been introduced in (some) failure messages. Either a general cause value is given or RL specific cause values are given. However, the tag for the RL specific choice is missing in the RL RECONFIGURATION FAILURE message.

This CR corrects the above-described error.

**Clauses affected:**

9.1.14

**Other specs affected:**

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

**Other comments:**

## 9.1.14 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>>Cause	M		9.2.1.5		YES	ignore
> <i>RL specific</i>					YES	ignore
>>RLs Causing Reconfiguration Failure		0..<maxnoof RLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for a UE.

## 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 183r1**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:**

August 2000

**Subject:**

Measurement alignment

**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:**

R3-001811 contained a request to WG1, WG2 and WG4 to include relevant information for the Acknowledged PRACH preambles and SIRerror measurements in their specifications so that this information can be removed from the WG3 specifications. This CR proposes to remove information about the above measurements from 25.423. The following changes are proposed:

- Remove the definition of SIRerror as it is included in 25.215 (WG1)
- Remove mapping and accuracy requirements for the SIRerror measurement as this information is planned to be included in 25.133 (WG4)

In addition, this CR proposes to correct the following measurement definitions:

- Tagging for FDD/TDD measurements added
- Measurement values in Measurement Initiation Response messages changed from mandatory to optional since these measured values are only present in case the Report Characteristics IE is set to "On-Demand".

CR183r1:

- Choice in Dedicated Measurement Initiation Response modified to optional instead the Dedicated Measurement values
- ASN.1 code added

Consequences if this CR is not accepted:

- TS in WG1, WG3 and WG4 are inconsistently
- Inconsistent definition of Measurement Initiation Response message in 25.423

**Clauses affected:**

8.3.11, 9.1.28, 9.1.29, 9.1.31, 9.2.1.18, 9.2.1.19, 9.2.1.38, 9.2.1.39, 9.3.3

**Other specs**

Other 3G core specifications

→ List of CRs:

R1-000899/CR067 on 25.215  
R3-002209/CR222r1 on 25.433

**affected:**

Other GSM core specifications

→ List of CRs:

MS test specifications  
BSS test specifications  
O&M specifications


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


**Other  
comments:**

--

## 8.3.11 Measurement Initiation

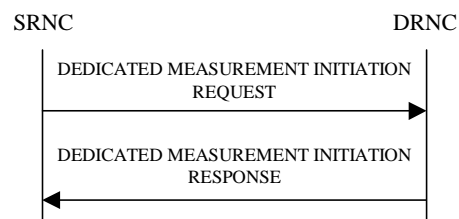
### 8.3.11.1 General

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

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

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

### 8.3.11.2 Successful Operation



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

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

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

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

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

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

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

#### Report characteristics

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

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

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

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

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

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

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

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

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

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

#### Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

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

$a = 1/2^{(k/2)}$ , where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

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

~~The physical layer measurement results are sampled once every measurement period. For most measurements the measurement period and the accuracy are defined in [23]/[24]. For those measurements not covered in [23]/[24], the following measurement period and accuracy are applicable:~~

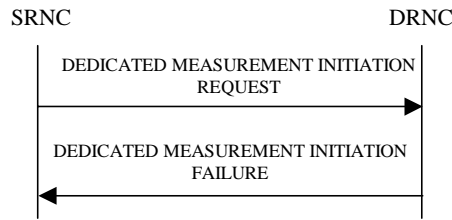
Measurement	Accuracy	Measurement period
SIR error	Determined by accuracy of SIR value used for calculating the SIR error (see [23]/[24])	See SIR measurement in [23]/[24]

#### Response message

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

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

8.3.11.3 Unsuccessful Operation



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

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

<del>Dedicated Measurement Type</del>	<del>Dedicated Measurement Object Type</del>
<del>SIR Error</del>	<del>"RLS" [FDD] or "RL" [TDD]</del>

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

Typical cause values are:

**Radio Network Layer Causes:**

- Measurement not Supported For The Object
- Measurement Temporarily not Available

**Miscellaneous Causes:**

- Control Processing Overload
- HW Failure

8.3.11.4 Abnormal Conditions

-

## 9.1.28 DEDICATED MEASUREMENT INITIATION REQUEST

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

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



## 9.1.29 DEDICATED MEASUREMENT INITIATION RESPONSE

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

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

## 9.1.31 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
Measurement Id	M		9.2.1.37		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL-ID	M		9.2.1.49		–	
>>>DPCH ID	O		9.2.3.3	TDD only	–	
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>>"Measurement not Available"		NULL			YES	ignore
>"RLS" or "ALL RLS"				FDD only	YES	ignore
>>RL Set Information		1..<maxnoofRLSets>			EACH	ignore
>>>RL Set ID	M		9.2.2.35		–	
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.19		–	
>>>>>"Measurement not Available"		NULL				
CFN	O		9.2.1.9	Dedicated Measurement Time Reference	YES	ignore

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

### 9.2.1.18 Dedicated Measurement Type

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated Measurement Type			ENUMERATED (SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time, ...)	RSCP, Rx Timing Deviation are used by TDD only, Round Trip Time, <a href="#">SIR Error</a> <del>is</del> <a href="#">are</a> used by FDD only.

NOTE: For definitions of the measurement types refer to ref. [11] and [14].

### 9.2.1.19 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR Value	C <i>MeasValue</i>		INTEGER(0..63)	According to mapping in ref. <a href="#">[4423]</a> and <a href="#">[4424]</a>
>SIR Error Value	C <i>MeasValue</i>		INTEGER(0..125)	<a href="#">According to mapping in [23], (FDD only)</a> $SIR\_Error = SIR - SIR\_target$ 0: $< -31.0\text{ dB}$ 1: $-31.0\text{ dB} \leq SIR\_Error < 30.5\text{ dB}$ 2: $-30.5\text{ dB} \leq SIR\_Error < 30.0\text{ dB}$ ... 62: $-0.5\text{ dB} \leq SIR\_Error < 0\text{ dB}$ 63: $0\text{ dB} \leq SIR\_Error < 0.5\text{ dB}$ ... 124: $30.5\text{ dB} \leq SIR\_Error < 31\text{ dB}$ 125: $\geq 31\text{ dB}$
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0..127)	According to mapping in ref. <a href="#">[4423]</a> and <a href="#">[4424]</a>
>RSCP	C <i>MeasValue</i>		INTEGER(0..81)	According to mapping in ref. <a href="#">[4424]</a> (TDD only)
>Rx Timing Deviation	C <i>MeasValue</i>		INTEGER(0..2047)	According to mapping in <a href="#">[4424]</a> [TDD only]
>Round Trip Time	C <i>MeasValue</i>		INTEGER(0..8191)	According to mapping in <a href="#">[4423]</a> [FDD only]

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

### 9.2.1.38 Measurement Increase/Decrease Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..62)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 62: 31dB
SIR Error	<i>C – Threshold</i>		INTEGER(0..124)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 124: 62 dB (FDD only)
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..112,...)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 112: 56 dB
RSCP	<i>C – Threshold</i>		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0..8190)	0: 0 chips 1: 0.25 chips 2: 0.5 chips ... 8190: 2047.5 chips (FDD only)

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

### 9.2.1.39 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..63)	According to mapping in ref. [4423] and [4424].
SIR Error	<i>C – Threshold</i>		INTEGER(0..125)	According to mapping in [23], (FDD only) $SIR\_Error = SIR - SIR\_target$ 0: $< -31.0\text{ dB}$ 1: $-31.0\text{ dB} \leq SIR\_Error < 30.5\text{ dB}$ 2: $-30.5\text{ dB} \leq SIR\_Error < 30.0\text{ dB}$ ... 62: $-0.5\text{ dB} \leq SIR\_Error < 0\text{ dB}$ 63: $0\text{ dB} \leq SIR\_Error < 0.5\text{ dB}$ ... 124: $30.5\text{ dB} \leq SIR\_Error < 31\text{ dB}$ 125: $\geq 31\text{ dB}$
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..127)	According to mapping in ref. [4423] and [4424].
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in ref. [4424] (TDD only)
Rx Timing Deviation	<i>C – Threshold</i>		INTEGER(0..2047)	According to mapping in [4424] (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0..8191)	According to mapping in 25.215[23] (FDD only)

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

### 9.3.3 PDU Definitions

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

#### PARTLY OMITTED

```
-- *****
--
-- 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 mandatoryoptional } |
    { 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-Container {{ RLIE-DM-Rsp }}
```

```
RLIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rsp          CRITICALITY ignore TYPE RLItem-DM-Rsp          PRESENCE
    mandatory },
    ...
}
```

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

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

```
RL-Set-DM-Rsp ::= ProtocolIE-Container {{ RL-SetIE-DM-Rsp }}
```

```
RL-SetIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-SetItem-DM-Rsp      CRITICALITY ignore TYPE RL-SetItem-DM-Rsp      PRESENCE
    mandatory },
    ...
}
```

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

```

}
...
RL-SetItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...
RL-InformationList-DM-Rsp ::= RL-IE-ContainerList1 { {RL-Information-DM-Rsp-IEs} }

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

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

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

RL-Set-InformationList-DM-Rsp ::= RL-Set-IE-ContainerList { {RL-Set-Information-
DM-Rsp-IEs} }

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

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

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

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

```

## 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 184**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:**

August 2000

**Subject:**

Clarification of usage of Reporting Object in the RL Restoration Procedure

**Work item:**

**Category:**

(only one category shall be marked with an X)

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

**Release:**

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

**Reason for change:**

In the current RNSAP specification the usage of the Reporting Object in the RL Restoration procedure is unclear (whereas it is clear in NBAP).

This CR clarifies the usage of the Reporting Object in the RL Restoration procedure is unclear in line with NBAP.

**Clauses affected:**

8.3.10.2

**Other specs affected:**

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

**Other comments:**



### 8.3.10.2 Successful Operation



**Figure 1: RL Restoration procedure, Successful Operation**

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when indicated by the UL sync detection algorithm defined in ref. [10] and [22]. [FDD – The algorithm in ref. [10] shall use the minimum value of the parameters N\_INSYNC\_IND that are configured in the cells supporting the radio links of the RL Set].

[TDD - If the re-established synchronisation concerns one or more individual Radio Links the DRNC shall indicate the affected Radio Link(s) using the *RL Information IE* group.] [FDD - If the re-established synchronisation concerns one or more Radio Link Sets the DRNC shall indicate the affected Radio Link Set(s) using the *RL Set Information IE* group.]

<b>CHANGE REQUEST</b>			
<b>25.423 CR 185r3</b>		Current Version: <b>3.2.0</b>	
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: <b>TSG RAN #9</b> <small>list expected approval meeting # here ↑</small>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	<small>(for SMG use only)</small>
	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

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:**    August 2000

**Subject:**    Non Core Features in RNSAP

**Work item:**

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

**Reason for change:**

In version 3.2.0 of RNSAP specification there are not any consistent way of handling situations where parts (or all) that is requested in a procedure is ignored (rejected). Three categories exist:

- It has been agreed that the following features shall be possible to reject (if requested and not supported) in RNSAP:
  - DCH (change required)
  - DSCH (change required)
  - USCH (change required)
  - RACH/FACH/CPCH (change required)
  - Compressed Mode (change required)
  - Tx Diversity (change required)
  - Diversity Combination in DRNC
  - Requested number of DL Codes not supported
  - Requested UL SF not supported (change required)
  - Requested DL SF not supported (change required)
  - Measurements on individual DPCHs
- It has been agreed that the following features shall be allowed to ignore (if requested and not supported) in RNSAP:
  - Queuing
  - Limited Power Increase (change required)
  - DRAC
  - SSdT (change required)
- It has been agreed that information related to the following features does not have to be provided if not supported:
  - Positioning Information (LCS)
 No change required for this third category.

This CR modifies the specification in the following way to take care of the above-described issues:

- cause values are added for the “reject” cases marked with “change required” above

- specification text of the style “...shall, if supported,...” for the “ignore” case marked with “change required”

Changes in r3: (highlighted in yellow)

Additional agreements included:

- The new cause values are included as “typical” cause values in the procedures where it is more likely that they would appear and
- Some “obvious” error cases that does not require any text in the Unsuccessful Operation sub-chapter are removed (related to Tx Diversity, Macro Diversity Combining and Compressed Mode).

Consequences if this CR is not accepted:

The RNSAP specification will be less clear on how non-core features are handled, which may lead to inter-working problems.

**Clauses affected:**

8.3.1.2, 8.3.1.3, 8.3.2.2, 8.3.2.3, 8.3.4.2, 8.3.4.3, 8.3.7.2, 9.2.1.5, and 9.3.4

**Other specs affected:**

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

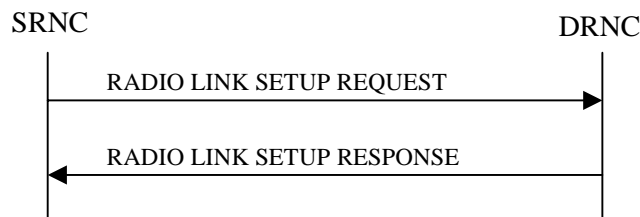
<b>X</b>

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

TS 25.433 CR224

**Other comments:**

### 8.3.1.2 Successful Operation



**Figure 1: Radio Link Setup procedure: Successful Operation**

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific RRC connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request setup of the radio link(s).

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

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

[FDD - The *Diversity Control Field IE* indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not on the Iur. If the *Diversity Control Field IE* is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field IE* is set to "Must", the DRNS shall combine the RL with one of the other RL. When an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

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

[FDD - If the *Initial DL TX Power IE* and *Uplink SIR Target IE* are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value.]

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

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

[FDD – If the received *Limited Power Increase IE* is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control.]

[FDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with  $DPC\_MODE=0$  and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved for the concerning RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3). ]

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

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]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].

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

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the new DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used when those are activated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

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

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

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

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

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

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

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

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

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL.]

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

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

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

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

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

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

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

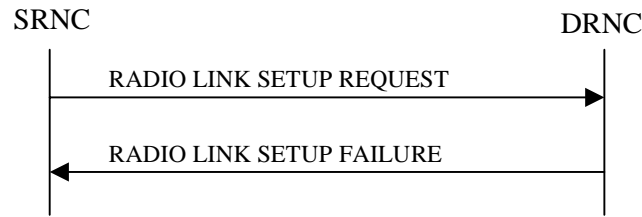
Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

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

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

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

### 8.3.1.3 Unsuccessful Operation



**Figure 2: Radio Link Setup procedure: Unsuccessful Operation**

In unsuccessful case (i.e. one or more RLs can not be setup) the RADIO LINK SETUP FAILURE message shall be sent to the SRNC, indicating the reason for failure. If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

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

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

[FDD—If the value of the *Diversity Control Field* IE of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK SETUP FAILURE message].

[FDD—When the *Diversity Mode* IE equals "Closed loop mode1" or "Closed loop mode2" and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value "No Closed Loop Timing Adjustment Mode configured".]

Typical cause values are:

#### Radio Network Layer Causes:

- [FDD - UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- [FDD - Combining Resources not available];
- Requested Configuration not Supported;
- Cell not Available;
- [FDD - Requested Tx Diversity No Closed Loop Timing Adjustment Mode configured not Supported];
- Power Level not Supported;
- Invalid CM Settings;
- DCH not Supported;
- DSCH not Supported;
- [TDD - USCH not Supported];
- [FDD - UL Spreading Factor not Supported];
- [FDD - DL Spreading Factor not Supported];

- CM not Supported.

**Transport Layer Causes:**

- Transport Link Failure

**Protocol Causes:**

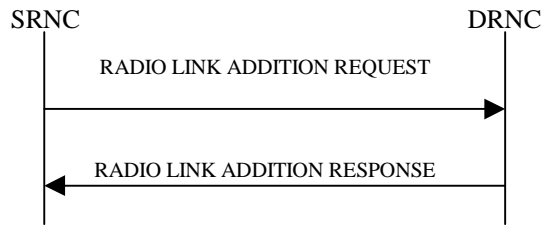
- Transaction not Allowed

**Miscellaneous Causes:**

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



### 8.3.2.2 Successful Operation



**Figure 3: Radio Link Addition procedure: Successful Operation**

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

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field IE* indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur. If the *Diversity Control Field IE* is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field IE* is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with DPC\_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

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

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

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

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

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

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

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

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

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

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

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

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the neighbouring cell.

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

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

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

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

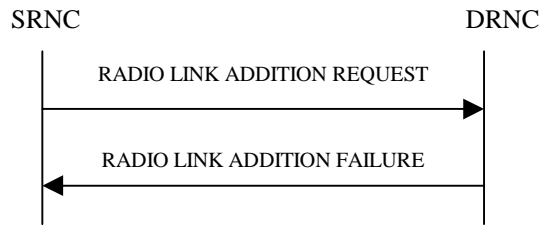
After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].

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

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFailure, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

### 8.3.2.3 Unsuccessful Operation



**Figure 4: Radio Link Addition procedure: Unsuccessful Operation**

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

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

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

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

If the value of the *Diversity Control Field* IE of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode* IE equals "Closed loop mode1" or "Closed loop mode2" and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value "No Closed Loop Timing Adjustment Mode configured".]

Typical cause values are:

#### Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Combining Resources not available ;
- Cell not Available;
- [FDD - Requested Tx Diversity No Closed Loop Timing Adjustment Mode configured not Supported];
- Power Level not Supported;
- Invalid CM Settings;
- CM not Supported.

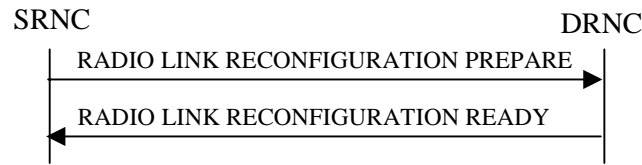
#### Transport Layer Causes:

- Transport Link Failure.

#### Miscellaneous Causes:

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

### 8.3.4.2 Successful Operation



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

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

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

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

#### **DCH Modification:**

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes 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.

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]. 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 - 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 *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 or *Puncture limit* IE the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

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

#### [TDD – UL/DL CCTrCH Addition]

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

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

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

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

#### Compressed Mode Preparation:



[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

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

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

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

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

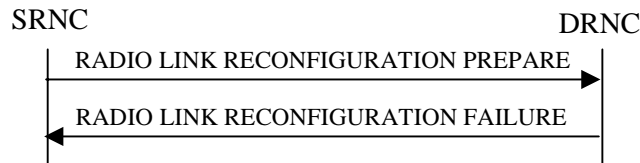
The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message. to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

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

### 8.3.4.3 Unsuccessful Operation



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

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

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

If more than one 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.

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings;

- [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.

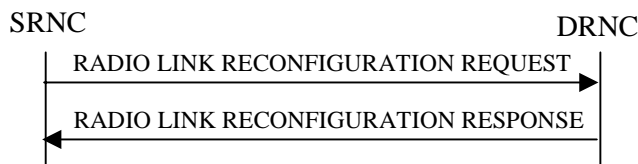
#### Protocol Causes:

- Transaction not Allowed.

#### Miscellaneous Causes:

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

### 8.3.7.2 Successful Operation



**Figure 7: 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 *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.

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]. 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.

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

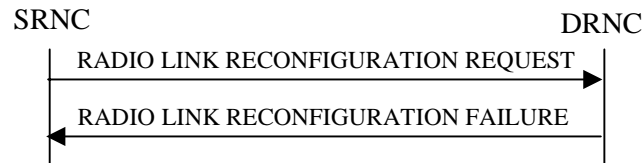
In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

**Compressed Mode Preparation:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]

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

### 8.3.7.3 Unsuccessful Operation



**Figure 8: Unsyncronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

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

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

If the requested Unsyncronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s) the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

~~{FDD—If the DRNS cannot provide the requested CM pattern sequences, the DRNC shall regard the Unsyncronised Radio Link Reconfiguration procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".}~~

Typical cause values are:

**Radio Network Layer Causes:**

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Setting;

~~- CM not Supported.~~

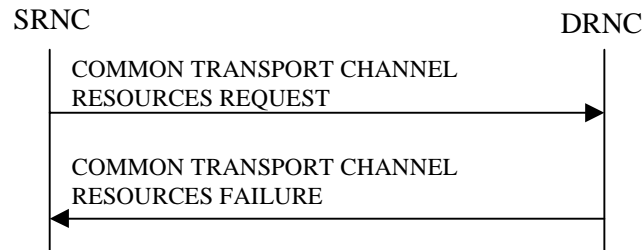
**Protocol Causes:**

- Transaction not Allowed.

**Miscellaneous Causes:**

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

## 8.4.1.3 Unsuccessful Operation



**Figure 9: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation**

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, indicating the cause of the failure.

Typical cause values are:

**Radio Network Layer Causes:**

- RACH/FACH/CPCH not Supported:

## 9.2.1.5 Cause

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, <u>No Closed Loop Timing Adjustment Requested Tx Diversity Mode configured not Supported,</u> Measurement Temporarily not Available, Unspecified, Invalid CM Settings, <u>DCH not Supported,</u> <u>DSCH not Supported,</u> <u>USCH not Supported,</u> <u>RACH/FACH/CPCH not Supported,</u> <u>UL Spreading Factor not Supported,</u> <u>DL Spreading Factor not Supported,</u> <u>CM not Supported...</u> )	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	



## 9.3.4 Information Element Definitions

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

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

BEGIN

IMPORTS
    maxCodeNumComp-1,
    maxNoTFCIGroups,
    maxNoCodeGroups,
    maxNrOfErrors,
    maxRateMatching,
    maxNrOfPoints,
    maxNrOfTFCs,
    maxNrOfTFS,
    maxCTFC,
    maxTFCI1Combs,
    maxTFCI2Combs,
    maxTFCI2Combs-1,
    maxTGPS,
    maxTTL-Count
FROM RNSAP-Constants

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

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

.
.
.
    <Parts of the ASN.1 module is omitted.>
.
.
.
-- C
```

```

Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    no-closed-loop-timing-adjustmentrequested-tx-diversity-mode-not-supportedeconfigured,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    dch-not-supported,
    dsch-not-supported,
    usch-not-supported,
    rach-fach-cpch-not-supported,
    ul-spreading-factor-not-supported,
    dl-spreading-factor-not-supported,
    cm-not-supported,
    unspecified,
}

```

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



## 8.3.2 Radio Link Addition

### 8.3.2.1 General

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

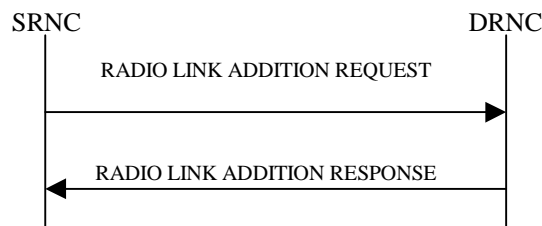
This procedure shall use the signalling bearer connection for the relevant UE context.

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

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

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

### 8.3.2.2 Successful Operation



**Figure 1: Radio Link Addition procedure: Successful Operation**

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

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with DPC\_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

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

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

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

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

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

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

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

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

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

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

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

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the neighbouring cell.

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

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

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

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

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

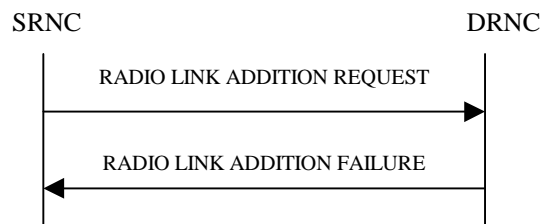
[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control IE* was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH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

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

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

### 8.3.2.3 Unsuccessful Operation



**Figure 2: Radio Link Addition procedure: Unsuccessful Operation**

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

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

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

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

If the value of the *Diversity Control Field IE* of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode IE* equals “Closed loop mode1” or “Closed loop mode2” and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value “No Closed Loop Timing Adjustment Mode configured”.]

Typical cause values are:

**Radio Network Layer Causes:**

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Combining Resources not available ;
- Cell not Available;
- [FDD - No Closed Loop Timing Adjustment Mode configured];
- Power Level not Supported;
- Invalid CM Settings.

**Transport Layer Causes:**

- Transport Link Failure.

**Miscellaneous Causes:**

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

#### 8.3.2.4 Abnormal Conditions

-



## 9.1.6 RADIO LINK ADDITION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	reject
<b>RL Information</b>		<i>1..&lt;max number of RLS-1&gt;</i>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40			
>Transmit Diversity Indicator	<del>O</del> Diversity mode O		9.2.2.50		–	
Active Pattern Sequence Information	O			Either all the already active Transmission Gap Sequence(s) are addressed (Transmission Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject

Range bound	Explanation
Max number of RLS	Maximum number of radio links for one UE
Diversity mode	This IE is present unless Diversity Mode IE in UL-DPCH Information group is "none"

## 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	
> <b>Time slot ISCP Info</b>		0..<maxnoofDLts>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

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

### 9.3.3 PDU Definitions

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

#### NOTE : TEXT OMMITTED

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

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

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

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

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

```
RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                 C-ID,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    diversityControlField DiversityControlField,
    primaryCPICH-EcNo    PrimaryCPICH-EcNo    OPTIONAL,
    sSDT-CellID          SSdT-CellID          OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-
ExtIEs} } OPTIONAL,
    ...
}
```

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

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

## CHANGE REQUEST

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

**25.423 CR 187**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:** August 2000

**Subject:** Limited power increase chapter

**Work item:**

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

(only one category shall be marked with an X)

**Reason for change:** "Limited Power Increase IE" is moved from the chapter "Common Parameters" to the chapter "FDD specific parameters", because this IE is used in FDD mode only. This corrects an editorial inconsistency.

**Clauses affected:** 9.2.1.33, 9.2.2.x (new)

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

**Other comments:**

9.2.1.33 Limited Power Increase

Void.

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

~~If the limited power increase is used, DRNS shall use the limited power increase algorithm as specified in [10], subclause 5.2.~~

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

### 9.2.2.x Limited Power Increase

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

If the limited power increase is used, DRNS shall use the limited power increase algorithm as specified in [10], subclause 5.2.

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

<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 188</b>		Current Version: <b>3.2.0</b>		
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team		
For submission to: <b>TSG RAN #9</b>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)	
list expected approval meeting # here ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>		

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:**    **August 2000**

**Subject:**    **Measurement Grouping to be Optional in the DRNC**

**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:**

In the current RNSAP specification it is unclear whether grouping of measurement results is mandatory or optional. There are several problems with measurement reporting in a DRNC. The following problems have been identified (apart from the specification being ambiguous):  
 1. Report Characteristics.  
 Grouping of measurements is only relevant for measurements initiated with the Report Characteristics set to "Periodic".  
 2. Delay.  
 The "store and forward" behaviour when grouping measurement results in the DRNC may add (in the worst case) almost one "Report Period" of delay to the reporting of one object.  
 3. Time Stamping.  
 The DRNC has the option of putting a time stamp on the measurement report. This time stamp can not be correct for all the different measurement values in the measurement report.  
  
 To avoid this problem this CR changes the grouping of measurement results (for multiple dedicated measurement objects) to be optional in the DRNC.  
  
Consequences if this CR is not accepted:  
 The RNSAP specification will be ambiguous on the issue of measurement reporting, which may lead to inter-working problems.

**Clauses affected:**    **8.3.11.2, 8.3.12.2**

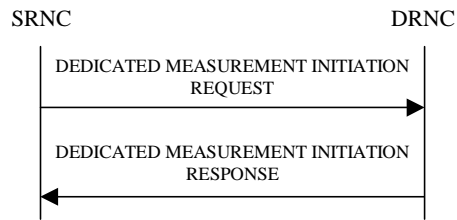
<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List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

Other  
comments:





### 8.3.11.2 Successful Operation



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

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

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

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

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

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

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

#### Report characteristics

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

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

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

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

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

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

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

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

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

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

#### Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

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

$a = 1/2^{(k/2)}$ , where  $k$  is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present,  $a$  shall be set to 1 (no filtering)

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

The physical layer measurement results are sampled once every measurement period. For most measurements the measurement period and the accuracy are defined in [23] / [24]. For those measurements not covered in [23] / [24], the following measurement period and accuracy are applicable:

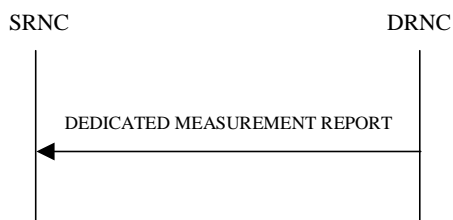
Measurement	Accuracy	Measurement period
SIR error	Determined by accuracy of SIR value used for calculating the SIR error (see[23]/[24])	See SIR measurement in [23]/[24]

#### Response message

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

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

## 8.3.12.2 Successful Operation

**Figure 2: Measurement Reporting procedure, Successful Operation**

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

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

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

## 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 189r1**

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:**

August 2000

**Subject:**

Removal of Unnecessary use of the ProtocolIE-Container in RNSAP

**Work item:**

**Category:**

(only one category shall be marked with an X)

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

**Release:**

Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:**

In version 3.2.0 of RNSAP specification the usage of the ASN.1 definition ProtocolIE-Container is used frequently. It is used for two purposes:

- at the top level of each message to carry multiple IEs
  - for IEs not being at the top level of a message that requires criticality assignment.
- The ASN.1 definition of the ProtocolIE-Container is a SEQUENCE OF the ASN.1 definition ProtocolIE-Field, carrying the IE-Id, criticality of the IE, and the IE itself. Since the definition of the ProtocolIE-Container is a SEQUENCE OF with the range 0 to 65535 items this means that there will be a 2 octet length indicator included each time the ProtocolIE-Container is used. Since the only time the ProtocolIE-Container is used to carry more than one IE is case "a" above the other cases where the ProtocolIE-Container is used (case "b" above) includes the length octet with the value 1. This causes unnecessary long messages, especially when the ProtocolIE-Container is used to carry multiple repetitions of an object, e.g. RL Information.

This CR corrects the above-described deficiency by defining a new container, the ProtocolIE-Single-Container that is a single ProtocolIE-Field to avoid the two length octets.

**Clauses affected:**

9.1.14

**Other specs affected:**

Other 3G core specifications  → List of CRs:  
Other GSM core specifications  → List of CRs:  
MS test specifications  → List of CRs:  
BSS test specifications  → List of CRs:  
O&M specifications  → List of CRs:

**Other comments:**

### 9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    ClosedloopTimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    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,  
ISCP,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
MaxNrOfUL-DPCHs,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
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,  
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-PhysicalChannelOffset,  
TDD-TPC-DownlinkStepSize,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TimeSlot,  
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-InterferenceLevel,  
UL-SIR,  
UL-FP-Mode,

```

    UL-ScramblingCode,
    URA-ID,
    USCH-ID
FROM RNSAP-IEs

    PrivateIE-Container{},
    ProtocolExtensionContainer{},
    ProtocolIE-ContainerList{},
    ProtocolIE-ContainerPair{},
    ProtocolIE-ContainerPairList{},
    ProtocolIE-Container{},
    ProtocolIE-Single-Container{}},
    RNSAP-PRIVATE-IES,
    RNSAP-PROTOCOL-EXTENSION,
    RNSAP-PROTOCOL-IES,
    RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

    maxNoOfDSCHs,
    maxNoOfRB,
    maxNoOfUSCHs,
    maxNrOfCCTrCHs,
    maxNrOfDCHs,
    maxNrOfDL-Codes,
    maxNrOfDPCHs,
    maxNrOfMACcshSDU-Length,
    maxNrOfRLs,
    maxNrOfRLSets,
    maxNrOfRLs-1,
    maxNrOfRLs-2,
    maxNrOfSCCPCHs,
    maxNrOfULTs,
    maxNrOfDLTs,
    maxRNCinURA-1,
    maxNrOfNeighbouringRNCs,
    maxNrOfFDDNeighboursPerRNC,
    maxNrOfTDDNeighboursPerRNC,
    maxFACHCountPlus1,
    maxIBSEG,

    id-Active-Pattern-Sequence-Information,
    id-AdjustmentRatio,
    id-All-RLItem-DM-Rqst,
    id-All-RLItem-Set-DM-Rqst,
    id-AllowedQueuingTime,
    id-BindingID,
    id-C-ID,
    id-C-RNTI,
    id-CFN,
    id-CN-CS-DomainIdentifier,
    id-CN-PS-DomainIdentifier,

```



id-Cause,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CellItem-PagingRqst,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CriticalityDiagnostics,  
id-D-RNTI,  
id-D-RNTI-ReleaseIndication,  
id-DCH-AddList-RL-ReconfPrepFDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-AddList-RL-ReconfRqstFDD,  
id-DCH-AddList-RL-ReconfRqstTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-Information-RL-SetupRqstFDD,  
id-DCH-InformationList-RL-SetupRqstTDD,  
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,  
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,  
id-DCH-InformationResponseListIE-RL-ReconfRsp,  
id-DCH-ModifyList-RL-ReconfPrepFDD,  
id-DCH-ModifyList-RL-ReconfPrepTDD,  
id-DCH-ModifyList-RL-ReconfRqstFDD,  
id-DCH-ModifyList-RL-ReconfRqstTDD,  
id-DCH-InformationResponseListIE-RL-SetupRspTDD,  
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,  
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,  
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-CodeInformationListIE-PhyChReconfRqstFDD,  
id-DL-CodeInformationListIE-RL-AdditionFailureFDD,

id-DL-CodeInformationListIE-RL-AdditionRspFDD,  
id-DL-CodeInformationListIE-RL-ReconfReadyFDD,  
id-DL-CodeInformationListIE-RL-ReconfResp,  
id-DL-CodeInformationListIE-RL-SetupFailureFDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRspTDD,  
id-DL-DPCH-InformationItem-RL-SetupRspTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,  
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,  
id-DL-SIRTarget,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-ReferencePowerInformation-DL-PC-Rqst,  
id-DRXCycleLengthCoefficient,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DiversityIndicationItem-RL-AdditionFailureFDD,  
id-DiversityIndicationItem-RL-AdditionRspFDD,  
id-DiversityIndicationItem-RL-AdditionRspTDD,  
id-DiversityIndicationItem-RL-SetupFailureFDD,  
id-DiversityIndicationItem-RL-SetupRspFDD,  
id-DSCH-AddList-RL-ReconfPrepTDD,  
id-DSCH-Add-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Delete-RL-ReconfPrepFDD,  
id-DSCH-InformationItem-RL-SetupRqstFDD,  
id-DSCH-InformationListIE-RL-AdditionRspTDD,  
id-DSCH-InformationListIEs-RL-SetupRspTDD,  
id-DSCH-InformationList-RL-SetupRqstTDD,  
id-DSCH-InformationResponseItem-RL-SetupRspFDD,  
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id-DSCH-InformationResponseListIE-RL-SetupFailureFDD,  
id-DSCH-Information-RL-SetupRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Modify-RL-ReconfPrepFDD,  
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD,  
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,  
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD,  
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD,  
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD,  
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,  
id-GA-AccessPointPosition,  
id-GA-Cell,  
id-GeneralCauseItem-RL-AdditionFailureFDD,  
id-GeneralCauseItem-RL-AdditionFailureTDD,

id-GeneralCauseItem-RL-ReconfFailure,  
id-GeneralCauseItem-RL-SetupFailureFDD,  
id-GeneralCauseItem-RL-SetupFailureTDD,  
id-IMSI,  
id-L3-Information,  
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD,  
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD,  
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD,  
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MeasurementAvailableItem-DedicatedMeasurementReport,  
id-MeasurementnotAvailableItem-DedicatedMeasurementReport,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MultipleURAsIndicator,  
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD,  
id-Neighbouring-CellInformationItem-RL-AdditionRsp,  
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,  
id-Neighbouring-CellInformationItem-RL-SetupRsp,  
id-NonCombiningItem-RL-AdditionFailureFDD,  
id-NonCombiningItem-RL-AdditionRspFDD,  
id-NonCombiningItem-RL-AdditionRspTDD,  
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,  
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,  
id-PagingArea-PagingRqst,  
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,  
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,  
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,  
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,  
id-PowerAdjustmentType,  
id-ProcedureScope-DL-PC-Rqst,  
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD,  
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD,  
id-RANAP-RelocationInformation,  
id-RL-Information-PhyChReconfRqstFDD,  
id-RL-Information-PhyChReconfRqstTDD,  
id-RL-Information-RL-AdditionRqstFDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-DeletionRqst,  
id-RL-Information-RL-FailureInd,  
id-RL-Information-RL-ReconfPrepFDD,  
id-RL-Information-RL-RestoreInd,  
id-RL-Information-RL-SetupRqstFDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-InformationList-RL-DeletionRqst,

id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-ReconfReadyTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
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id-RL-InformationResponseItem-RL-ReconfReadyFDD,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
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id-RL-InformationResponseList-RL-ReconfReadyFDD,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RLItem-DM-Rprt,  
id-RLItem-DM-Rqst,  
id-RLItem-DM-Rsp,  
id-RLItem-RL-FailureInd,  
id-RLItem-RL-RestoreInd,  
id-RL-ReconfigurationFailure-RL-ReconfFail,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-Information-RL-FailureInd,  
id-RL-Set-Information-RL-RestoreInd,  
id-RL-SetItem-DM-Rprt,  
id-RL-SetItem-DM-Rqst,  
id-RL-SetItem-DM-Rsp,  
id-RL-SetItem-RL-FailureInd,  
id-RL-SetItem-RL-RestoreInd,  
id-RLSpecificCauseItem-RL-AdditionFailureFDD,  
id-RLSpecificCauseItem-RL-AdditionFailureTDD,  
id-RLSpecificCauseItem-RL-ReconfFailure,  
id-RLSpecificCauseItem-RL-SetupFailureFDD,  
id-RLSpecificCauseItem-RL-SetupFailureTDD,  
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,  
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD,  
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-S-RNTI,  
id-SAI,  
id-SRNC-ID,  
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,  
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,  
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,  
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,  
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,  
id-TransportBearerID,  
id-TransportBearerRequestIndicator,  
id-TransportLayerAddress,  
id-UC-ID,

```
id-Transmission-Gap-Pattern-Sequence-Information,
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAIItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-USCH-AddList-RL-ReconfPrepTDD,
id-USCH-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationListIE-RL-AdditionRspTDD,
id-USCH-InformationListIEs-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyList-RL-ReconfPrepTDD,
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
FROM RNSAP-Constants;

-- *****
--
-- Common Container List
--
-- *****
```

```

DPCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IEsSetParam } }
RL-IE-ContainerList0      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1-1    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-1    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-2    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IEsSetParam } }
RL-Set-IE-ContainerList   { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IEsSetParam } }
CCTrCH-IE-ContainerList0  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IEsSetParam } }
CCTrCH-IE-ContainerList1  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IEsSetParam } }
DSCH-IE-ContainerList     { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNoOfDSCHs, { IEsSetParam } }
USCH-IE-ContainerList     { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNoOfUSCHs, { IEsSetParam } }

```

```

-- *****
--
-- RADIO LINK SETUP REQUEST FDD
--
-- *****

```

```

RadioLinkSetupRequestFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupRequestFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL,
    ...
}

```

```

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY reject TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-D-RNTI          CRITICALITY reject TYPE D-RNTI          PRESENCE optional } |
    { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
    { 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,
    d-FieldLength              D-FieldLength OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,

```

```

    sSDT-CellIdLength          SSDT-CellID-Length          OPTIONAL,
    s-FieldLength              S-FieldLength              OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                        TFCS,
    dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
    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 ::= DSCH-IE-ContainerList { {DSCH-InformationItemIEs-RL-SetupRqstFDD} }

DSCH-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationItem-RL-SetupRqstFDD    CRITICALITY reject    TYPE DSCH-InformationItem-RL-SetupRqstFDD    PRESENCE mandatory    },
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```



```

}
...
RL-InformationList-RL-SetupRqstFDD ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD PRESENCE mandatory },
  ...
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  rL-ID RL-ID,
  c-ID C-ID,
  firstRLS-indicator FirstRLS-Indicator,
  frameOffset FrameOffset,
  chipOffset ChipOffset,
  propagationDelay PropagationDelay OPTIONAL,
  diversityControlField DiversityControlField OPTIONAL
  -- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
  dl-InitialTX-Power DL-Power OPTIONAL,
  primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL,
  sSDT-CellID SSdT-CellID OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
  iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP REQUEST TDD
--
-- *****

RadioLinkSetupRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-S-RNTI CRITICALITY reject TYPE S-RNTI PRESENCE mandatory } |
  { ID id-D-RNTI CRITICALITY reject TYPE D-RNTI PRESENCE optional } |

```

```

{ ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
{ 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-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerList1 { {UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

UL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD  PRESENCE mandatory },
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCCTrCH-ID          CCTrCH-ID,
  ul-TFCS             TFCS,
  tFCI-Coding         TFCI-Coding,
  ul-PunctureLimit    PunctureLimit,
  iE-Extensions       ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-ContainerList1 { {DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD} }

DL-CCTrCH-InformationItemIEs-RL-SetupRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD  PRESENCE mandatory },
  ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCCTrCH-ID          CCTrCH-ID,
  dl-TFCS             TFCS,
  tFCI-Coding         TFCI-Coding,
  dl-PunctureLimit    PunctureLimit,
  tdd-TPC-DownlinkStepSize  TDD-TPC-DownlinkStepSize,
  iE-Extensions       ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    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,
    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-SourceStatisticsDescr,
    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,
    iSCP                ISCP,
    iE-Extensions        ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

Timeslot-ISCPItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
  { ID id-UL-SIRTarget    CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
  { ID id-DL-SIRTarget    CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-SetupRspFDD
    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  rL-Set-ID      RL-Set-ID,
  sAI           SAI,
  gA-Cell       GA-Cell      OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition      OPTIONAL,
  ul-InterferenceLevel UL-InterferenceLevel,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-SetupRspFDD      OPTIONAL,
  dl-CodeInformation DL-CodeInformationList-RL-SetupRspFDD,
  diversityIndication DiversityIndication-RL-SetupRspFDD,
  -- 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,
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 {
    dschInformation DSCHInformation-RL-SetupRspFDD,
    pdSCHCodeMapping PDSCHCodeMapping,
    iE-Extensions ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,

```



```

}
...
}
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
DSCHInformation-RL-SetupRspFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspFDD,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformation-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}
DSCHInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD
PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator  SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths        MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
    iE-Extensions                ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}
PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..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,
closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
...
}
Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp
Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
c-ID C-ID,
uARFCNforNt UARFCN,
frameOffset FrameOffset OPTIONAL,
cellParameterID CellParameterID,
syncCase SyncCase,
timeSlot TimeSlot OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot SCH-TimeSlot OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
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-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  sAI            SAI,
  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,
  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,
    ul-InterferenceLevel    UL-InterferenceLevel,
    iE-Extensions           ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD    PRESENCE mandatory },
    ...
}

UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    ul-DPCH-Information      UL-DPCH-InformationList-RL-SetupRspTDD,
    iE-Extensions           ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-SetupRspTDD} }

UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD        CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD    PRESENCE mandatory },
    ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot                TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
}

```

```

    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-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,
    iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD    CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory },
    ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-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}}
    ...
}

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-DL-SIRTarget          CRITICALITY ignore  TYPE DL-SIRTarget          PRESENCE optional } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore  TYPE CriticalityDiagnostics PRESENCE optional },
...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause      GeneralCauseList-RL-SetupFailureFDD,
  rLSpecificCause  RLSpecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-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,
  sAI           SAI,
  ul-InterferenceLevel  UL-InterferenceLevel,
  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,
  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,
  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,
  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 ::= {
  ...
}
```

```
-- *****
--
-- RADIO LINK SETUP FAILURE TDD
--
-- *****
```

```
RadioLinkSetupFailureTDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupFailureTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}}
  ...
}
```

```
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-ContainerProtocolIE-Single-Container {{ GeneralCauseIE-RL-SetupFailureTDD }}

GeneralCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-SetupFailureTDD      CRITICALITY ignore  TYPE GeneralCauseItem-RL-SetupFailureTDD  PRESENCE mandatory }T
  ...
}

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureTDD }}

RLSpecificCauseIE-RL-SetupFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-SetupFailureTDD    CRITICALITY ignore  TYPE RLSpecificCauseItem-RL-SetupFailureTDD    PRESENCE mandatory }T
  ...
}

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-ContainerProtocolIE-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 }T
  ...
}

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-ContainerList1-1 { {RL-Information-RL-AdditionRqstFDD-IEs} }

RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Information-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRqstFDD PRESENCE mandatory },
  ...
}

RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  c-ID           C-ID,
  frameOffset    FrameOffset,
  chipOffset     ChipOffset,
  diversityControlField DiversityControlField,
  primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL,
  sSDT-CellID    SSDT-CellID OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
  iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

RL-Information-RL-AdditionRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

RadioLinkAdditionRequestTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkAdditionRequestTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkAdditionRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-AdditionRqstTDD    CRITICALITY reject    TYPE RL-Information-RL-AdditionRqstTDD    PRESENCE mandatory    },
    ...
}

RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
    rL-ID                        RL-ID,
    c-ID                          C-ID,
    frameOffset                   FrameOffset,
    diversityControlField         DiversityControlField,
    primaryCCPCH-RSCP             PrimaryCCPCH-RSCP    OPTIONAL,
    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,
    iSCP                          ISCP,
    iE-Extensions                 ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

RadioLinkAdditionRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore  TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory
  } |
  { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics          PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-AdditionRspFDD    CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE
  mandatory },
  ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  sAI                  SAI,
  gA-Cell              GA-Cell    OPTIONAL,
  gA-AccessPointPosition  GA-AccessPointPosition  OPTIONAL,
  ul-InterferenceLevel  UL-InterferenceLevel,
  secondary-CCPCH-Info  Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
  dl-CodeInformation    DL-CodeInformationList-RL-AdditionRspFDD,
  diversityIndication   DiversityIndication-RL-AdditionRspFDD,
  -- 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,
  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-ContainerProtocolIE-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 }7
    ...
}

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-ContainerProtocolIE-Single-Container {{ DiversityIndicationIE-RL-AdditionRspFDD }}

DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspFDD    PRESENCE mandatory }7
    ...
}

DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
    combining                Combining-RL-AdditionRspFDD,
    nonCombining            NonCombining-RL-AdditionRspFDD,
    ...
}

Combining-RL-AdditionRspFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory }7
    ...
}

```

```

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-ContainerProtocolIE-Single-Container {{ NonCombiningIE-RL-AdditionRspFDD }}

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspFDD    PRESENCE mandatory }7
    ...
}

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-ContainerProtocolIE-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 }7
    ...
}

```



```

    pCCPCH-Power          PCCPCH-Power,
    iE-Extensions        ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition
                       GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot
                       UL-InterferenceList-RL-AdditionRspTDD,
    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,
    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,
  ul-InterferenceLevel    UL-InterferenceLevel,
  iE-Extensions           ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
  ...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE mandatory
  }...
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD

UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  cTrCH-ID                CCTrCH-ID,
  ul-DPCH-Information     UL-DPCH-InformationList-RL-AdditionRspTDD,
  iE-Extensions           ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory },
  ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,

```

```

midambleShift           MidambleShift,
timeSlot                TimeSlot,
tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod        RepetitionPeriod,
repetitionLength        RepetitionLength,
tFCI-Presence           TFCI-Presence,
iE-Extensions           ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-ContainerProtocolIE-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,
  iE-Extensions       ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory },
  ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  dPCH-ID           DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType         BurstType,
  midambleShift     MidambleShift,
  timeSlot          TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod  RepetitionPeriod,
  repetitionLength  RepetitionLength,
}

```



```

tFCI-Presence          TFCI-Presence,
iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

| DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}

DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
| { ID id-DiversityIndicationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspTDD PRESENCE mandatory }T
| ...
| }

DiversityIndicationItem-RL-AdditionRspTDD ::= CHOICE {
    combining          Combining-RL-AdditionRspTDD,
    nonCombining       NonCombining-RL-AdditionRspTDD,
    ...
}

| Combining-RL-AdditionRspTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{CombiningIE-RL-AdditionRspTDD}}

CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
| { ID id-CombiningItem-RL-AdditionRspTDD CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspTDD PRESENCE mandatory }T
| ...
| }

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-ContainerProtocolIE-Single-Container {{NonCombiningIE-RL-AdditionRspTDD}}

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
| { ID id-NonCombiningItem-RL-AdditionRspTDD CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspTDD PRESENCE mandatory }T
| ...
| }

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-ContainerProtocolIE-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 }7
    ...
}

DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    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-ContainerProtocolIE-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,
    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-ContainerProtocolIE-Single-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore
  TYPE GeneralCauseItem-RL-AdditionFailureFDD          PRESENCE mandatory }7
  ...
}

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore          TYPE RLSpecificCauseItem-RL-
  AdditionFailureFDD          PRESENCE mandatory }7
  ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD          UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
  successful-RL-InformationRespList-RL-AdditionFailureFDD          SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD          OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-
IEs} }

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD          PRESENCE mandatory },
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  cause                Cause,
  iE-Extensions        ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
  PRESENCE mandatory },
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  sAI                  SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  dl-CodeInformation   DL-CodeInformationList-RL-AdditionFailureFDD,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  -- 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,
  closedloopoptimingadjustmentmode Closedloopoptimingadjustmentmode OPTIONAL,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-ContainerProtocolIE-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 }T
  ...
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-AdditionFailureFDD  CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD  PRESENCE
  mandatory }T
  ...
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
  combining          Combining-RL-AdditionFailureFDD,
  nonCombining      NonCombining-RL-AdditionFailureFDD,
  ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionFailureFDD  CRITICALITY ignore TYPE CombiningItem-RL-AdditionFailureFDD  PRESENCE mandatory }T
  ...
}

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-ContainerProtocolIE-Single-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningItem-RL-AdditionFailureFDD   CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionFailureFDD   PRESENCE mandatory }7
  ...
}

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-ContainerProtocolIE-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 }7
  ...
}

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-ContainerProtocolIE-Single-Container {{ GeneralCauseIE-RL-AdditionFailureTDD }}

GeneralCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-AdditionFailureTDD    CRITICALITY ignore  TYPE GeneralCauseItem-RL-AdditionFailureTDD    PRESENCE mandatory }7
  ...
}

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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-AdditionFailureTDD }}

RLSpecificCauseIE-RL-AdditionFailureTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-AdditionFailureTDD    CRITICALITY ignore  TYPE RLSpecificCauseItem-RL-AdditionFailureTDD    PRESENCE mandatory
  }7
}

```

```

| .....
| }

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-ContainerProtocolIE-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-ContainerList1 { {RL-Information-RL-DeletionRqst-IEs} }

RL-Information-RL-DeletionRqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-DeletionRqst  CRITICALITY notify  TYPE RL-Information-RL-DeletionRqst  PRESENCE mandatory  },
    ...
}

RL-Information-RL-DeletionRqst ::= SEQUENCE {
    rL-ID RL-ID,
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-DeletionRqst-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-DeletionRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkDeletionRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK DELETION RESPONSE
--
-- *****

RadioLinkDeletionResponse ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{RadioLinkDeletionResponse-IEs}},
    protocolExtensions ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}} OPTIONAL,
    ...
}

RadioLinkDeletionResponse-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RadioLinkDeletionResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

```

```

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          {{RadioLinkReconfigurationPrepareFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer    {{RadioLinkReconfigurationPrepareFDD-Extensions}}
    ...
}

RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD PRESENCE optional } |
    { 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-DPCCH-SlotFormat         UL-DPCCH-SlotFormat         OPTIONAL,
    sSDT-CellIDLength           SSDT-CellIDLength           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-InformationItem-RL-ReconfPrepFDD
```

```

DSCH-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor    TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet      TransportFormatSet                OPTIONAL,
    allocationRetentionPriority    AllocationRetentionPriority    OPTIONAL,
    schedulingPriorityIndicator    SchedulingPriorityIndicator    OPTIONAL,
    bLER                    BLER                                OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information      DSCH-AddInfo-RL-ReconfPrepFDD,
    pdSCH-RL-ID          RL-ID,
    tFCS                 TFCS,
    iE-Extensions        ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Add-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-ReconfPrepFDD

DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information      DSCH-Info-Delete-RL-ReconfPrepFDD,
    iE-Extensions        ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-DeleteInformationItem-RL-REconfPrepFDD

DSCH-DeleteInformationItem-RL-REconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }

RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD PRESENCE mandatory },
  ...
}

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  rL-ID RL-ID,
  sSDT-Indication SSdT-Indication OPTIONAL,
  sSDT-CellIdentity SSdT-CellID OPTIONAL
  -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
  iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
  ...
}

RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationPrepareTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
  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 } |
  optional { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-AddList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepTDD PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional } |
}

```



```

{ ID id-DSCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject  TYPE DSCH-ModifyList-RL-ReconfPrepTDD    PRESENCE optional } |
{ ID id-DSCH-AddList-RL-ReconfPrepTDD       CRITICALITY reject  TYPE DSCH-AddList-RL-ReconfPrepTDD       PRESENCE optional } |
{ ID id-DSCH-DeleteList-RL-ReconfPrepTDD    CRITICALITY reject  TYPE DSCH-DeleteList-RL-ReconfPrepTDD    PRESENCE optional } |
{ ID id-USCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject  TYPE USCH-ModifyList-RL-ReconfPrepTDD    PRESENCE optional } |
{ ID id-USCH-AddList-RL-ReconfPrepTDD       CRITICALITY reject  TYPE USCH-AddList-RL-ReconfPrepTDD       PRESENCE optional } |
{ ID id-USCH-DeleteList-RL-ReconfPrepTDD    CRITICALITY reject  TYPE USCH-DeleteList-RL-ReconfPrepTDD    PRESENCE optional } ,
...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD    CRITICALITY notify  TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD    PRESENCE mandatory  },
  ...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS,
  tFCI-Coding        TFCI-Coding,
  punctureLimit      PunctureLimit,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD    CRITICALITY notify  TYPE UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD    PRESENCE mandatory  },
  ...
}

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS OPTIONAL,
  tFCI-Coding        TFCI-Coding OPTIONAL,
  punctureLimit      PunctureLimit OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs} }

```

```

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD   CRITICALITY notify TYPE UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD PRESENCE mandatory
  },
  ...
}

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD   CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory
  },
  ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS,
  tFCI-Coding        TFCI-Coding,
  punctureLimit      PunctureLimit,
  iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD   CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  tFCS               TFCS OPTIONAL,
  tFCI-Coding        TFCI-Coding OPTIONAL,
  punctureLimit      PunctureLimit OPTIONAL,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD    CRITICALITY notify    TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD    PRESENCE
mandatory    },
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtRch-ID          CCTrCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    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,
    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            CCH-CH-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            CCH-CH-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 {
    uSCH-ID                USCH-ID                OPTIONAL,
    ul-ccTrCHID            CCH-CH-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-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority  AllocationRetentionPriority,
    schedulingPriorityIndicator  SchedulingPriorityIndicator,
    bLER                   BLER,
    rb-Info                RB-Info,
    iE-Extensions          ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-ReconfPrepTDD

USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
RadioLinkReconfigurationPrepareTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
}
...
-- *****
--
-- RADIO LINK RECONFIGURATION READY FDD
--
-- *****

RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationReadyFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyFDD    CRITICALITY ignore  TYPE RL-InformationResponseList-RL-ReconfReadyFDD    PRESENCE optional
    } |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-ReconfReadyFDD ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfReadyFDD-IEs} }

RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD    CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-ReconfReadyFDD    PRESENCE mandatory
    },
    ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR          OPTIONAL,
    min-UL-SIR           UL-SIR          OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfReadyFDD    OPTIONAL,
    dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD    OPTIONAL,
    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-ContainerProtocolIE-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 }7
  ...
}

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-ContainerProtocolIE-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 }7
  ...
}

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-ContainerProtocolIE-Single-Container { { DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD } }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD PRESENCE mandatory }7
}

```

```

}
}

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

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--
-- *****
RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationReadyTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-Extensions}}
    ...
}

RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-ReconfReadyTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR          OPTIONAL,
    min-UL-SIR           UL-SIR          OPTIONAL,
    ul-CCTrCH-Information UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    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-ContainerProtocolIE-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
    }7
    ...
}

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-ContainerProtocolIE-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 }T
    ...
}

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfReadyTDD

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShift MidambleShift,
    timeSlot TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tFCI-Presence TFCI-Presence,
    iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

| UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-ContainerProtocolIE-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 }T
    ...
}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    burstType BurstType OPTIONAL,
    midambleShift MidambleShift OPTIONAL,
    timeSlot TimeSlot OPTIONAL,
}

```

```

tDD-PhysicalChannelOffset      TDD-PhysicalChannelOffset      OPTIONAL,
repetitionPeriod               RepetitionPeriod                 OPTIONAL,
repetitionLength               RepetitionLength                OPTIONAL,
tFCI-Presence                  TFCI-Presence                   OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { {UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

| UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-ContainerProtocolIE-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 }T
  ...
}

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-ContainerProtocolIE-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
  }T
  ...
}

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-ContainerProtocolIE-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 (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfReadyTDD

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  midambleShift MidambleShift,
  timeSlot TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { {DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
...

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-ContainerProtocolIE-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 (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  burstType BurstType OPTIONAL,
  midambleShift MidambleShift OPTIONAL,
}

```

```

timeSlot                TimeSlot                OPTIONAL,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
repetitionPeriod          RepetitionPeriod          OPTIONAL,
repetitionLength          RepetitionLength          OPTIONAL,
tFCI-Presence             TFCI-Presence             OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-ContainerProtocolIE-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 }7
  ...
}

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-ContainerProtocolIE-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 }7
  ...
}

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-ContainerProtocolIE-Single-Container { {DSCHToBeAddedOrModifiedIEs-RL-
ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory
  }7
  ...
}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  priorityIndicator PriorityIndicator-RL-ReconfReadyTDD,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicator-RL-ReconfReadyTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyTDD

PriorityIndicatorItem-RL-ReconfReadyTDD ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container { {USCHToBeAddedOrModifiedIEs-RL-
ReconfReadyTDD} }

USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory
  }7
}

```



```

}
}

USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION COMMIT
--
-- *****

RadioLinkReconfigurationCommit ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationCommit-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}}          OPTIONAL,
    ...
}

RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CFN                CRITICALITY ignore  TYPE CFN                PRESENCE mandatory  }|
    { 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}}
    ...
}

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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerList0 { {RL-ReconfigurationFailure-RL-ReconfFailure-IEs} }

RL-ReconfigurationFailure-RL-ReconfFailure-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-ReconfigurationFailure-RL-ReconfFail CRITICALITY ignore TYPE RL-ReconfigurationFailure-RL-ReconfFail PRESENCE mandatory },
  ...
}

RL-ReconfigurationFailure-RL-ReconfFail ::= 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}}
  ...
}

RadioLinkReconfigurationCancel-IEs RNSAP-PROTOCOL-IES ::= {
  ...
}

RadioLinkReconfigurationCancel-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST FDD
--
-- *****

RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container  {{RadioLinkReconfigurationRequestFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
  ...
}

```

```

}
...
RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
  { ID id-UL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY reject  TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
  { ID id-DL-DPCH-Information-RL-ReconfRqstFDD  CRITICALITY reject  TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional } |
  { ID id-DCH-ModifyList-RL-ReconfRqstFDD       CRITICALITY reject  TYPE DCH-ModifyList-RL-ReconfRqstFDD       PRESENCE optional } |
  { ID id-DCH-AddList-RL-ReconfRqstFDD          CRITICALITY reject  TYPE DCH-AddList-RL-ReconfRqstFDD          PRESENCE optional } |
  { ID id-DCH-DeleteList-RL-ReconfRqstFDD       CRITICALITY reject  TYPE DCH-DeleteList-RL-ReconfRqstFDD       PRESENCE optional } |
  { ID id-Transmission-Gap-Pattern-Sequence-Information  CRITICALITY reject  TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional },
  ...
}

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  tFCS                TFCS      OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  tFCS                TFCS      OPTIONAL,
  tFCI-SignallingMode TFCS      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-ContainerList0 { {UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD    PRESENCE
mandatory    },
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    iE-Extensions            ProtocolExtensionContainer { {UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs} }

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD    PRESENCE
mandatory    },
    ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions            ProtocolExtensionContainer { {UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD    CRITICALITY notify    TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD    PRESENCE
mandatory    },
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs} }

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD PRESENCE
  mandatory },
  ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCtTrCH-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,
    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-ContainerList0 { {RL-InformationResponse-RL-ReconfRsp-IEs} }

RL-InformationResponse-RL-ReconfRsp-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-ReconfRsp    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRsp      PRESENCE mandatory },
  ...
}

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
  rL-ID          RL-ID,
  max-UL-SIR     UL-SIR          OPTIONAL,
  min-UL-SIR     UL-SIR          OPTIONAL,
  secondary-CCPCH-Info  Secondary-CCPCH-Info-RL-ReconfRsp      OPTIONAL,
  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-ContainerProtocolIE-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
  }T
  ...
}

```

```

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-ContainerProtocolIE-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 }T
  ...
}

```

```

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-ContainerProtocolIE-Single-Container { { RLIE-RL-FailureInd } }

RLIE-RL-FailureInd RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-RL-FailureInd            CRITICALITY ignore    TYPE RLItem-RL-FailureInd            PRESENCE mandatory    }7
    ...
}

RLItem-RL-FailureInd ::= SEQUENCE {
    rL-InformationList-RL-FailureInd        RL-InformationList-RL-FailureInd,
    iE-Extensions                          ProtocolExtensionContainer { { RLItem-RL-FailureInd-ExtIEs } } OPTIONAL,
    ...
}

RLItem-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-FailureInd          ::= RL-IE-ContainerList1 { {RL-Information-RL-FailureInd-IEs} }

RL-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-FailureInd    CRITICALITY ignore    TYPE RL-Information-RL-FailureInd    PRESENCE mandatory    },
    ...
}

RL-Information-RL-FailureInd ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {RL-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-RL-FailureInd ::= ProtocolIE-ContainerProtocolIE-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-ContainerList { {RL-Set-Information-RL-FailureInd-IEs} }

RL-Set-Information-RL-FailureInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-Information-RL-FailureInd          CRITICALITY ignore  TYPE RL-Set-Information-RL-FailureInd          PRESENCE mandatory },
    ...
}

RL-Set-Information-RL-FailureInd ::= SEQUENCE {
    rL-Set-ID          RL-Set-ID,
    cause              Cause,
    iE-Extensions      ProtocolExtensionContainer { {RL-Set-Information-RL-FailureInd-ExtIEs} } OPTIONAL,
    ...
}

RL-Set-Information-RL-FailureInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkFailureIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK RESTORE INDICATION
--

```

-- \*\*\*\*\*

```

RadioLinkRestoreIndication ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkRestoreIndication-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkRestoreIndication-Extensions}}    OPTIONAL,
    ...
}

RadioLinkRestoreIndication-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Reporting-Object-RL-RestoreInd    CRITICALITY ignore    TYPE Reporting-Object-RL-RestoreInd    PRESENCE mandatory    },
    ...
}

Reporting-Object-RL-RestoreInd ::= CHOICE {
    rL                RL-RL-RestoreInd,
    rL-Set            RL-Set-RL-RestoreInd,
    ...
}

RL-RL-RestoreInd          ::= ProtocolIE-ContainerProtocolIE-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-ContainerList1 { {RL-Information-RL-RestoreInd-IEs} }

RL-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-RestoreInd    CRITICALITY ignore    TYPE RL-Information-RL-RestoreInd    PRESENCE mandatory    },
    ...
}

RL-Information-RL-RestoreInd ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}
| RL-Set-RL-RestoreInd ::= ProtocolIE-ContainerProtocolIE-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-ContainerList { {RL-Set-Information-RL-RestoreInd-IEs} }
|
RL-Set-Information-RL-RestoreInd-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-Information-RL-RestoreInd CRITICALITY ignore TYPE RL-Set-Information-RL-RestoreInd PRESENCE mandatory },
  ...
}
|
RL-Set-Information-RL-RestoreInd ::= SEQUENCE {
  rL-Set-ID RL-Set-ID,
  iE-Extensions ProtocolExtensionContainer { {RL-Set-Information-RL-RestoreInd-ExtIEs} } OPTIONAL,
  ...
}
|
RL-Set-Information-RL-RestoreInd-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
|
RadioLinkRestoreIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
|
-- *****
--
-- DOWNLINK POWER CONTROL REQUEST
--
-- *****
|
DL-PowerControlRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{DL-PowerControlRequest-IEs}},
  protocolExtensions ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}} OPTIONAL,
  ...
}

```



```

DL-PowerControlRequest-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-PowerAdjustmentType          CRITICALITY ignore  TYPE PowerAdjustmentType          PRESENCE mandatory} |
  { ID id-DLReferencePower             CRITICALITY ignore  TYPE DL-Power                               PRESENCE conditional} |
  -- This IE is present only 'Adjustment Type' equals to 'Common'
  { ID id-DLReferencePowerList-DL-PC-Rqst  CRITICALITY ignore  TYPE DL-ReferencePowerInformationList-DL-PC-Rqst  PRESENCE conditional} |
  -- This IE is present only 'Adjustment Type' equals to 'Individual'
  { 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},
  ...
}

DL-ReferencePowerInformationList-DL-PC-Rqst ::= RL-IE-ContainerList1 { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs} }

DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformation-DL-PC-Rqst CRITICALITY ignore  TYPE DL-ReferencePowerInformation-DL-PC-Rqst  PRESENCE mandatory  },
  ...
}

DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE {
  rL-ID          RL-ID,
  dl-Reference-Power          DL-Power,
  iE-Extensions          ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs} } OPTIONAL,
  ...
}

DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

PhysicalChannelReconfigurationRequestFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container          {{PhysicalChannelReconfigurationRequestFDD-IEs}},
  protocolExtensions          ProtocolExtensionContainer {{PhysicalChannelReconfigurationRequestFDD-Extensions}}
  ...
}

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-ContainerProtocolIE-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-ContainerProtocolIE-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 ::= DPCH-IE-ContainerList {{UL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}

UL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationItem-PhyChReconfRqstTDD   CRITICALITY notify   TYPE UL-DPCH-InformationItem-PhyChReconfRqstTDD   PRESENCE mandatory   },
  ...
}

UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID                               DPCH-ID,
  tDD-ChannelisationCode                 TDD-ChannelisationCode   OPTIONAL,
  burstType                             BurstType                 OPTIONAL,
  midambleShift                         MidambleShift            OPTIONAL,
  timeSlot                               TimeSlot                  OPTIONAL,
}

```

```

tDD-PhysicalChannelOffset      TDD-PhysicalChannelOffset      OPTIONAL,
repetitionPeriod                RepetitionPeriod                OPTIONAL,
repetitionLength                RepetitionLength                OPTIONAL,
tFCI-Presence                   TFCI-Presence                   OPTIONAL,
IE-Extensions                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-ContainerProtocolIE-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 ::= DPCH-IE-ContainerList {{DL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}

DL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-PhyChReconfRqstTDD      CRITICALITY notify  TYPE DL-DPCH-InformationItem-PhyChReconfRqstTDD      PRESENCE mandatory },
  ...
}

DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode      OPTIONAL,
  burstType                BurstType                OPTIONAL,
  midambleShift            MidambleShift            OPTIONAL,
  timeSlot                 TimeSlot                OPTIONAL,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset      OPTIONAL,
  repetitionPeriod         RepetitionPeriod        OPTIONAL,
  repetitionLength         RepetitionLength        OPTIONAL,
  tFCI-Presence            TFCI-Presence            OPTIONAL,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PhysicalChannelReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION COMMAND
--
-- *****

PhysicalChannelReconfigurationCommand ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{PhysicalChannelReconfigurationCommand-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PhysicalChannelReconfigurationCommand-Extensions}}
    ...
}

PhysicalChannelReconfigurationCommand-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CFN          CRITICALITY ignore TYPE CFN          PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

PhysicalChannelReconfigurationCommand-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION FAILURE
--
-- *****

PhysicalChannelReconfigurationFailure ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{PhysicalChannelReconfigurationFailure-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{PhysicalChannelReconfigurationFailure-Extensions}}
    ...
}

PhysicalChannelReconfigurationFailure-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-Cause          CRITICALITY ignore TYPE Cause          PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

```

```

PhysicalChannelReconfigurationFailure-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- UPLINK SIGNALLING TRANSFER INDICATION
--
-- *****

UplinkSignallingTransferIndication ::= SEQUENCE {
  protocolIEs                ProtocolIE-Container    {{UplinkSignallingTransferIndication-IEs}},
  protocolExtensions         ProtocolExtensionContainer {{UplinkSignallingTransferIndication-Extensions}}      OPTIONAL,
  ...
}

UplinkSignallingTransferIndication-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UC-ID                CRITICALITY ignore TYPE UC-ID                PRESENCE mandatory } |
  { ID id-SAI                  CRITICALITY ignore TYPE SAI                  PRESENCE mandatory } |
  { ID id-GA-Cell              CRITICALITY ignore TYPE GA-Cell              PRESENCE optional } |
  { ID id-C-RNTI               CRITICALITY ignore TYPE C-RNTI               PRESENCE mandatory } |
  { ID id-S-RNTI               CRITICALITY ignore TYPE S-RNTI               PRESENCE mandatory } |
  { ID id-D-RNTI               CRITICALITY ignore TYPE D-RNTI               PRESENCE optional } |
  { ID id-L3-Information        CRITICALITY ignore TYPE L3-Information        PRESENCE mandatory } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-URA-ID               CRITICALITY ignore TYPE URA-ID               PRESENCE mandatory } |
  { ID id-MultipleURAsIndicator CRITICALITY ignore TYPE MultipleURAsIndicator PRESENCE mandatory } |
  { ID id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind PRESENCE optional
  },
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-Ind

RNCsWithCellsInTheAccessedURA-Item-UL-ST-Ind ::= SEQUENCE {
  rNC-ID                      RNC-ID,
  iE-Extensions                ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind-ExtIEs} } OPTIONAL,
  ...
}

RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UplinkSignallingTransferIndication-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****

```

```

--
-- DOWNLINK SIGNALLING TRANSFER REQUEST
--
-- *****
DownlinkSignallingTransferRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{DownlinkSignallingTransferRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{DownlinkSignallingTransferRequest-Extensions}}
    ...
}
DownlinkSignallingTransferRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY ignore TYPE C-ID          PRESENCE mandatory } |
    { ID id-D-RNTI       CRITICALITY ignore TYPE D-RNTI       PRESENCE mandatory } |
    { ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE mandatory } |
    { ID id-D-RNTI-ReleaseIndication CRITICALITY ignore TYPE D-RNTI-ReleaseIndication PRESENCE mandatory },
    ...
}
DownlinkSignallingTransferRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- *****
--
-- RELOCATION COMMIT
--
-- *****
RelocationCommit ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container      {{RelocationCommit-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RelocationCommit-Extensions}}
    ...
}
RelocationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI       CRITICALITY ignore TYPE D-RNTI       PRESENCE optional } |
    { ID id-RANAP-RelocationInformation CRITICALITY ignore TYPE RANAP-RelocationInformation PRESENCE optional },
    ...
}
RelocationCommit-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
-- *****
--
-- PAGING REQUEST
--
-- *****

```

```

PagingRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container  {{PagingRequest-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{PagingRequest-Extensions}}          OPTIONAL,
    ...
}

PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-PagingArea-PagingRqst      CRITICALITY ignore  TYPE PagingArea-PagingRqst      PRESENCE mandatory } |
    { ID id-SRNC-ID                    CRITICALITY ignore  TYPE RNC-ID                    PRESENCE mandatory } |
    { ID id-S-RNTI                      CRITICALITY ignore  TYPE S-RNTI                      PRESENCE mandatory } |
    { ID id-IMSI                        CRITICALITY ignore  TYPE IMSI                        PRESENCE mandatory } |
    { ID id-DRXCycleLengthCoefficient    CRITICALITY ignore  TYPE DRXCycleLengthCoefficient    PRESENCE mandatory },
    ...
}

PagingArea-PagingRqst ::= CHOICE {
    uRA                URA-PagingRqst,
    cell               Cell-PagingRqst,
    ...
}

URA-PagingRqst ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ URAIE-PagingRqst }}

URAIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
    { ID id-URAIItem-PagingRqst  CRITICALITY ignore TYPE URAIItem-PagingRqst PRESENCE mandatory }T
    ...
}

URAIItem-PagingRqst ::= SEQUENCE {
    uRA-ID                URA-ID,
    iE-Extensions         ProtocolExtensionContainer { { URAIItem-PagingRqst-ExtIEs } } OPTIONAL,
    ...
}

URAIItem-PagingRqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-PagingRqst ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ CellIE-PagingRqst }}

CellIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
    { ID id-CellItem-PagingRqst  CRITICALITY ignore  TYPE CellItem-PagingRqst  PRESENCE mandatory }T
    ...
}

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-ContainerProtocolIE-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-ContainerList1 { {RL-Information-DM-Rqst-IEs} }

RL-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rqst      CRITICALITY reject  TYPE RL-InformationItem-DM-Rqst      PRESENCE mandatory  },
    ...
}

RL-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-ID                RL-ID,
    dPCH-ID              DPCH-ID      OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-DM-Rqst ::= ProtocolIE-ContainerProtocolIE-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-ContainerList { {RL-Set-Information-DM-Rqst-IEs} }

RL-Set-Information-DM-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rqst      CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-Rqst      PRESENCE mandatory  },
    ...
}

RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
    rL-Set-ID                RL-Set-ID,
    iE-Extensions            ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rqst-ExtIEs} } OPTIONAL,
    ...
}

```

```
}

```

```
RL-Set-InformationItem-DM-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
| All-RL-DM-Rqst ::= ProtocolIE-ContainerProtocolIE-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 }T
  ...
}
```

```
All-RLItem-DM-Rqst ::= NULL
```

```
| All-RL-Set-DM-Rqst ::= ProtocolIE-ContainerProtocolIE-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 }T
  ...
}
```

```
All-RLItem-Set-DM-Rqst ::= NULL
```

```
DedicatedMeasurementInitiationRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
-- *****
--
-- DEDICATED MEASUREMENT INITIATION RESPONSE
--
-- *****
```

```
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{DedicatedMeasurementInitiationResponse-IEs}},
  protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}
  ...
} OPTIONAL,
```

```
DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID CRITICALITY ignore TYPE MeasurementID PRESENCE mandatory } |
  { ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp PRESENCE mandatory } |
  { ID id-CFN CRITICALITY ignore TYPE CFN PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}
```

```
DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
  rLs RL-DM-Rsp,
  rLS RL-Set-DM-Rsp,
```

```

    allRL          RL-DM-Rsp,
    allRLS        RL-Set-DM-Rsp,
    ...
}

RL-DM-Rsp ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ RLIE-DM-Rsp }}

RLIE-DM-Rsp RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rsp          CRITICALITY ignore      TYPE      RLItem-DM-Rsp          PRESENCE      mandatory }T
    ...
}

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-ContainerProtocolIE-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 }T
    ...
}

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-ContainerList1 { {RL-Information-DM-Rsp-IEs} }

RL-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp      CRITICALITY ignore      TYPE      RL-InformationItem-DM-Rsp          PRESENCE mandatory }T,
    ...
}

RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rL-ID          RL-ID,
    dPCH-ID        DPCH-ID          OPTIONAL,
    dedicatedMeasurementValue      DedicatedMeasurementValue,
    iE-Extensions      ProtocolExtensionContainer { {RL-InformationItem-DM-Rsp-ExtIEs} } OPTIONAL,
}

```

```

}
...
}
RL-InformationItem-DM-Rsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RL-Set-InformationList-DM-Rsp ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rsp-IEs} }

RL-Set-Information-DM-Rsp-IEs RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-Set-InformationItem-DM-Rsp CRITICALITY ignore TYPE RL-Set-InformationItem-DM-Rsp PRESENCE mandatory },
...
}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE {
rL-Set-ID RL-Set-ID,
dedicatedMeasurementValue DedicatedMeasurementValue,
iE-Extensions ProtocolExtensionContainer { {RL-Set-InformationItem-DM-Rspns-ExtIEs} } OPTIONAL,
...
}

RL-Set-InformationItem-DM-Rspns-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DedicatedMeasurementInitiationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- DEDICATED MEASUREMENT INITIATION FAILURE
--
-- *****

DedicatedMeasurementInitiationFailure ::= SEQUENCE {
protocolIEs ProtocolIE-Container {{DedicatedMeasurementInitiationFailure-IEs}},
protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}} 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-ContainerProtocolIE-Single-Container {{ RLIE-DM-Rprt }}
```

```
RLIE-DM-Rprt RNSAP-PROTOCOL-IES ::= {
    { ID id-RLItem-DM-Rprt          CRITICALITY ignore    TYPE    RLItem-DM-Rprt          PRESENCE    mandatory }7
    ...
}
```

```
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-ContainerProtocolIE-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 }7
    ...
}
```

```

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-ContainerList1 { {RL-Information-DM-Rprt-IEs} }

RL-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rprt      CRITICALITY ignore  TYPE RL-InformationItem-DM-Rprt      PRESENCE mandatory  },
    ...
}

RL-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-ID                RL-ID,
    dPCH-ID              DPCH-ID          OPTIONAL,
    measurementAvailabilityIndicator  MeasurementAvailabilityIndicator-DedicatedMeasurementReport,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationItem-DM-Rprt-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rprt-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Set-InformationList-DM-Rprt          ::= RL-Set-IE-ContainerList { {RL-Set-Information-DM-Rprt-IEs} }

RL-Set-Information-DM-Rprt-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Set-InformationItem-DM-Rprt      CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-Rprt      PRESENCE mandatory  },
    ...
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-Set-ID                RL-Set-ID,
    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-ContainerProtocolIE-Single-Container {{ MeasurementAvailableIE-DedicatedMeasurementReport }}

MeasurementAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-DedicatedMeasurementReport PRESENCE
  mandatory }T
  ...
}

MeasurementAvailableItem-DedicatedMeasurementReport ::= SEQUENCE {
  dedicatedmeasurementValue DedicatedMeasurementValue,
  ie-Extensions ProtocolExtensionContainer { { MeasurementAvailableItem-DedicatedMeasurementReport-ExtTIEs } } OPTIONAL,
  ...
}

MeasurementAvailableItem-DedicatedMeasurementReport-ExtTIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

MeasurementnotAvailable-DedicatedMeasurementReport ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ MeasurementnotAvailableIE-DedicatedMeasurementReport }}

MeasurementnotAvailableIE-DedicatedMeasurementReport RNSAP-PROTOCOL-IES ::= {
  { ID id-MeasurementnotAvailableItem-DedicatedMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-DedicatedMeasurementReport
  PRESENCE mandatory }T
  ...
}

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}}
  ...
}

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}}
  ...
}

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 {
    priorityIndicatorAndInitialWindowSizes      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-ContainerProtocolIE-Single-Container {{
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD }}
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-CTCH-
ResourceRspFDD PRESENCE mandatory }τ
    ...
}
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-ContainerProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD }}
MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDDPRESENCE mandatory
    }τ
    ...
}
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-ContainerProtocolIE-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 }T
  ...
}

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-ContainerProtocolIE-Single-Container {{ MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD }}

```

```

MAC-c-sh-SDU-LengthListIE-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-ContainerProtocolIE-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 ::= ProteoolIE-ContainerProtocolIE-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 }T
    ...
}

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 ::= ProteoolIE-ContainerProtocolIE-Single-Container {{ SecondaryCCPCHListIEs-CTCH-ResourceRspTDD }}

SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD    CRITICALITY ignore    TYPE    SecondaryCCPCHListIE-CTCH-ResourceRspTDD PRESENCE mandatory }T
    ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF SecondaryCCPCHItem-CTCH-ResourceRspTDD

```

```

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    timeSlot                    TimeSlot,
    burstType                   BurstType,
    midambleShift               MidambleShift,
    tDD-PhysicalChannelOffset   TDD-PhysicalChannelOffset,
    repetitionPeriod            RepetitionPeriod,
    repetitionLength            RepetitionLength,
    priorityIndicatorAndInitialWindowSizeList-option  PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD,
    iE-Extensions               ProtocolExtensionContainer { {SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-ContainerProtocolIE-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 }T
    ...
}

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-ContainerProtocolIE-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 }T
    ...
}

```



```
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
```

```
--9.3.7 Container Definitions
-- *****
--
-- Container definitions
--
-- *****

RNSAP-Containers -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    Presence,
    PrivateIE-ID,
    ProtocolExtensionID,
    ProtocolIE-ID
FROM RNSAP-CommonDataTypes

    maxPrivateIEs,
    maxProtocolExtensions,
    maxProtocolIEs
FROM RNSAP-Constants;

-- *****
--
-- Class Definition for Protocol IEs
--
-- *****

RNSAP-PROTOCOL-IES ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &criticality Criticality,
    &Value,
    &presence    Presence
}
WITH SYNTAX {
    ID          &id
    CRITICALITY &criticality
    TYPE        &Value
    PRESENCE    &presence
}

-- *****
```

```
--
-- Class Definition for Protocol IEs
--
-- *****

RNSAP-PROTOCOL-IES-PAIR ::= CLASS {
    &id          ProtocolIE-ID          UNIQUE,
    &firstCriticality  Criticality,
    &FirstValue,
    &secondCriticality  Criticality,
    &SecondValue,
    &presence          Presence
}
WITH SYNTAX {
    ID          &id
    FIRST CRITICALITY  &firstCriticality
    FIRST TYPE      &FirstValue
    SECOND CRITICALITY  &secondCriticality
    SECOND TYPE      &SecondValue
    PRESENCE        &presence
}

-- *****
--
-- Class Definition for Protocol Extensions
--
-- *****

RNSAP-PROTOCOL-EXTENSION ::= CLASS {
    &id          ProtocolExtensionID    UNIQUE,
    &criticality  Criticality,
    &Extension,
    &presence          Presence
}
WITH SYNTAX {
    ID          &id
    CRITICALITY  &criticality
    EXTENSION    &Extension
    PRESENCE     &presence
}

-- *****
--
-- Class Definition for Private IEs
--
-- *****

RNSAP-PRIVATE-IES ::= CLASS {
    &id          PrivateIE-ID,
    &criticality  Criticality,
    &Value,

```

```

    &presence      Presence
  }
  WITH SYNTAX {
    ID              &id
    CRITICALITY    &criticality
    TYPE           &Value
    PRESENCE       &presence
  }

-- *****
--
-- Container for Protocol IEs
--
-- *****

ProtocolIE-Container {RNSAP-PROTOCOL-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (0..maxProtocolIEs)) OF
    ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Single-Container {RNSAP-PROTOCOL-IES : IEsSetParam} ::=
  ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {RNSAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
  id              RNSAP-PROTOCOL-IES.&id              ({{IEsSetParam}}),
  criticality     RNSAP-PROTOCOL-IES.&criticality     ({{IEsSetParam}}{@id}),
  value          RNSAP-PROTOCOL-IES.&Value           ({{IEsSetParam}}{@id})
}

-- *****
--
-- Container for Protocol IE Pairs
--
-- *****

ProtocolIE-ContainerPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (0..maxProtocolIEs)) OF
    ProtocolIE-FieldPair {{IEsSetParam}}

ProtocolIE-FieldPair {RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
  id              RNSAP-PROTOCOL-IES-PAIR.&id              ({{IEsSetParam}}),
  firstCriticality RNSAP-PROTOCOL-IES-PAIR.&firstCriticality ({{IEsSetParam}}{@id}),
  firstValue      RNSAP-PROTOCOL-IES-PAIR.&firstValue      ({{IEsSetParam}}{@id}),
  secondCriticality RNSAP-PROTOCOL-IES-PAIR.&secondCriticality ({{IEsSetParam}}{@id}),
  secondValue     RNSAP-PROTOCOL-IES-PAIR.&secondValue     ({{IEsSetParam}}{@id})
}

-- *****
--
-- Container Lists for Protocol IE Containers
--
-- *****

```

```

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
    ProtocolIE-ContainerProtocolIE-Single-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, RNSAP-PROTOCOL-IES-PAIR : IEsSetParam} ::=
  SEQUENCE (SIZE (lowerBound..upperBound)) OF
    ProtocolIE-ContainerPair {{IEsSetParam}}

-- *****
--
-- Container for Protocol Extensions
--
-- *****

ProtocolExtensionContainer {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
    ProtocolExtensionField {{ExtensionSetParam}}

ProtocolExtensionField {RNSAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
  id          RNSAP-PROTOCOL-EXTENSION.&id          ({ExtensionSetParam}),
  criticality RNSAP-PROTOCOL-EXTENSION.&criticality  ({ExtensionSetParam}@id),
  extensionValue RNSAP-PROTOCOL-EXTENSION.&Extension  ({ExtensionSetParam}@id)
}

-- *****
--
-- Container for Private IEs
--
-- *****

PrivateIE-Container {RNSAP-PRIVATE-IES : IEsSetParam} ::=
  SEQUENCE (SIZE (1..maxPrivateIEs)) OF
    PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {RNSAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {
  id          RNSAP-PRIVATE-IES.&id          ({IEsSetParam}),
  criticality RNSAP-PRIVATE-IES.&criticality  ({IEsSetParam}@id),
  value       RNSAP-PRIVATE-IES.&Value       ({IEsSetParam}@id)
}

END

```

**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 190r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:** Aug. 2000

**Subject:** Correction to Compressed Mode

**Work item:**

**Category:** F Correction   
 A Corresponds to a correction in an earlier release   
 B Addition of feature   
 C Functional modification of feature   
 D Editorial modification   
 (only one category shall be marked with an X)

**Release:** Phase 2   
 Release 96   
 Release 97   
 Release 98   
 Release 99   
 Release 00

**Reason for change:** This document address the following corrections:

1. Transmission Gap Pattern Sequence Information Response IE added to the RADIO LINK SETUP REQUEST and RADIO LINK ADDITION FAILURE messages since this information is need for the successfully established RL(s)
2. Clarifies the Transmission Gap Pattern Sequence Information IE description – it can define compressed mode gap pattern parameters for DL or UL or both for DL and UL, based on that the word downlink removed and it is stated more general that Transmission Gap Pattern Sequence Information IE defines parameters for the compressed mode gap pattern sequences
3. TGPSI renamed to TGPSI Identifier in TGPSI message definitions to clarify that it is an ID for a specific pattern - currently ambiguous as it is the same as the message name.
4. TGPLx IE clarified: The duration of transmission gap pattern clarified – unit is frame
5. DeltaSirX IE clarified: SIR target value setting -unit is dB and range from 0 to 3 dB

Rev1: Procedural text for unsuccessfully operation of Radio Link Setup and Radio Link Addition removed since it was considered as duplicated information.

**Clauses affected:** 9.1.5.1,9.1.8.1, 9.2.2.A, 9.2.2.47A, 9.3.3, 9.3.4

**Other specs affected:** Other 3G core specifications  → List of CRs:  
 Other GSM core specifications  → List of CRs:  
 MS test specifications  → List of CRs:  
 BSS test specifications  → List of CRs:  
 O&M specifications  → List of CRs:



**Other  
comments:**



help.doc



<----- double-click here for help and instructions on how to create a CR.

## 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		-	
>>>SAI	M		9.2.1.52		-	
>>>UL Interference Level	M		9.2.1.68		-	
>>>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	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	M		9.2.1.35		-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
UL Tx Power						
<b>&gt;&gt;&gt;DSCH Information Response</b>		<i>0..&lt;maxno ofDSCHs&gt;</i>			GLOBAL	ignore
>>>>DSCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;&gt;&gt;Neighbouring Cell Information</b>	O	<i>0..&lt;maxnoof neighbourin gRNCs&gt;</i>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
<b>&gt;&gt;&gt;&gt;Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
<b>&gt;&gt;&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR		YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Downlink SIR Target	O		9.2.1.69 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

## 9.1.8 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		-	
>>>SAI	M		9.2.1.52		-	
>>>UL Interference Level	M		9.2.1.68		-	
>>>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	<u>Q</u>		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	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		-	
>>>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>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 FDDneighbors>				
>>>>>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 TDDneighbors>				
>>>>>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

### 9.2.2.A Active Pattern Sequence Information

Defines the parameters for the ~~downlink~~ compressed mode gap pattern sequence activation. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN .
<b>Transmission Gap Pattern Sequence Status</b>		0 to <MaxTGPS>		If the group is not present, none of the pattern sequences are activated.
>TGPSI <u>Identifier</u>	M		Integer(1..<MaxTGPS>)	<del>Active Pattern Sequence Identifier.</del> Establish a reference to the compressed mode pattern sequence. Up to <MaxAPS> simultaneous compressed mode pattern sequences can be activated.
>TGPRC	M		Integer (0..63)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	M		CFN	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.

Range bound	Explanation
MaxTGPS	Maximum number of active pattern sequences. Value 6.



### 9.2.2.47A Transmission Gap Pattern Sequence Information

Defines the parameters for the ~~downlink~~-compressed mode gap pattern sequence. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transmission gap pattern sequence Information</b>		1 to <MaxTGPS>		
>TGPSI_Identifier	M		Integer(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		Integer (0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		Integer(1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots
>TGL2	O		Integer (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		Integer (0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		Integer (1..144)	The duration of transmission gap pattern 1 in frames.
>TGPL2	O		Integer (1..144)	The duration of transmission gap pattern 2 in frames. If omitted, then TGPL2=TGPL1.
>RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied
>ITPPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
>UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink compressed mode method	C-DL		Enumerated (puncturing, SF/2, higher layer scheduling)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped
>Uplink compressed mode method	C-UL		Enumerated (SF/2, higher layer scheduling)	Method for generating uplink compressed mode gap
>Downlink frame type	M		Enumerated (A, B)	
≥DeltaSIR1	M		Integer	Delta in DL SIR target value to

			(0..30)	be set in the UE during the compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase)  Step 0.1dB, Range 0-3dB
≥DeltaSIRafter1	M		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern.,.  Step 0.1dB, Range 0-3dB
≥DeltaSIR2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1.  Step 0.1dB, Range 0-3dB
≥DeltaSIRafter2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1.  Step 0.1dB, Range 0-3dB

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

### 9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for RNSAP.
--
-- *****
```

**... Text omitted ...**

```
-- *****
--
-- 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-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause      RLSpecificCauseList-RL-SetupFailureFDD,
    ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE GeneralCauseItem-RL-SetupFailureFDD PRESENCE
    mandatory },
    ...
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
```

```

    cause
    iE-Extensions
    ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-SetupFailureFDD      CRITICALITY ignore          TYPE          RLSpecificCauseItem-RL-SetupFailureFDD
      PRESENCE mandatory },
    ...
}

RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD      UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD        SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions                                               ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1 { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
      PRESENCE mandatory },
    ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
    iE-Extensions       ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList0-1 { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD    CRITICALITY ignore    TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
      PRESENCE mandatory },
    ...
  }

SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID                               RL-ID,
  rL-Set-ID                           RL-Set-ID,
  SAI                                  SAI,
  ul-InterferenceLevel                UL-InterferenceLevel,
  dl-CodeInformation                  DL-CodeInformationList-RL-SetupFailureFDD,
  diversityIndication                 DiversityIndication-RL-SetupFailureFDD,
  -- 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,
  closedloopoptimingadjustmentmode    Closedloopoptimingadjustmentmode OPTIONAL,
  maximumAllowedULTxPower             MaximumAllowedULTxPower,
  dSCH-InformationResponse-RL-SetupFailureFDD    DSCH-InformationResponseList-RL-SetupFailureFDD    OPTIONAL,
  neighbouring-CellInformationList     Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD    CRITICALITY ignore    TYPE DL-CodeInformationListIE-RL-SetupFailureFDD    PRESENCE mandatory
  },
  ...
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupFailureFDD

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dl-ScramblingCode                   DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber     FDD-DL-ChannelisationCodeNumber,
  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-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-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-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-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-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 ::= {
  ...
}

```

... Text omitted ...

```

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

```

```

RadioLinkAdditionFailureFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionFailureFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
  ...
}

```

```

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-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} }
  ...
}

```

```

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore      TYPE RLSpecificCauseItem-RL-
AdditionFailureFDD          PRESENCE mandatory},
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD      SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-
IEs} }

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD          PRESENCE mandatory },
    ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions  ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
    PRESENCE mandatory },
    ...
}

```

```

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    sAI                  SAI,
    ul-InterferenceLevel UL-InterferenceLevel,
    dl-CodeInformation   DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication DiversityIndication-RL-AdditionFailureFDD,
    -- 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,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionFailureFDD PRESENCE
    mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    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-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD PRESENCE
    mandatory },
    ...
}

```

```

}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining                Combining-RL-AdditionFailureFDD,
    nonCombining             NonCombining-RL-AdditionFailureFDD,
    ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE CombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE NonCombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionFailureFDD    DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions            ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD

DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                 BindingID,
    transportLayerAddress     TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-
CellInformationItemIE-RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE    Neighbouring-CellInformationItem-RL-AdditionFailureFDD
    PRESENCE    mandatory },
    ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rNC-ID                    RNC-ID,
    cN-PS-DomainIdentifier    CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier    CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList    Per-FDD-Cell-InformationList-RL-AdditionFailureFDD    OPTIONAL,
    per-TDD-Cell-InformationList    Per-TDD-Cell-InformationList-RL-AdditionFailureFDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
  ...
}
```

... Text omitted ...

## 9.3.4 Information Element Definitions

```
-- *****
--
-- Information Element Definitions
--
-- *****
```

```
RNSAP-IEs -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=
```

```
BEGIN
```

```
IMPORTS
  maxCodeNumComp-1,
  maxNoTFCIGroups,
  maxNoCodeGroups,
  maxNrOfErrors,
```

```

    maxRateMatching,
    maxNrOfPoints,
    maxNrOfTFCS,
    maxNrOfTFs,
    maxCTFC,
    maxTFCI1Combs,
    maxTFCI2Combs,
    maxTFCI2Combs-1,
    maxTGPS,
    maxTTI-Count
FROM RNSAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes

    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;

-- A

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cmConfigurationChangeCFN      CFN,
    transmission-Gap-Pattern-Sequence-Status  Transmission-Gap-Pattern-Sequence-Status-List  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        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 ::= {  
    ...  
}
```

```
AllocationRetentionPriority ::= FrameHandlingPriority
```

```
AllowedQueuingTime ::= INTEGER (0..60)  
-- seconds
```

```
... Text Omitted ...
```

```
-- D
```

```
DCH-ID ::= INTEGER (0..255)
```

```
DedicatedMeasurementType ::= ENUMERATED {  
    sir,  
    sir-error,  
    transmitted-code-power,  
    rSCP,  
    round-trip-time,  
    rx-timing-deviation,  
    ...  
}
```

```
DedicatedMeasurementValue ::= CHOICE {  
    sIR-Value SIR-Value,  
    sIR-ErrorValue SIR-Error-Value,  
    transmittedCodePowerValue Transmitted-Code-Power-Value,  
    rSCP RSCP-Value, -- TDD only  
    roundTripTime Round-Trip-Time-Value, -- FDD only  
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only  
    ...  
}
```

```
DeltaSIR ::= INTEGER (0..30)  
| -- Step 0.1dB, (Range 0..3dB).
```

```
DiversityControlField ::= ENUMERATED {  
    may,  
    must,  
    must-not  
}
```

```
DiversityMode ::= ENUMERATED {  
    none,  
    sTTD,  
    closedLoopModel,  
    closedLoopMode2  
}
```

```
DL-DPCH-SlotFormat      ::= INTEGER (0..16)

DL-SIRTarget           ::= UL-SIR

DL-Power               ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

D-RNTI                 ::= INTEGER (0..1048575)

D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}

DL-ScramblingCode      ::= INTEGER (0..15)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling
}

DPCH-ID                ::= INTEGER (0..239)

DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB

DRACControl           ::= ENUMERATED {
    requested,
    not-requested
}

DRXCycleLengthCoefficient ::= INTEGER (2..12)

D-FieldLength         ::= ENUMERATED {
    v1,
    v2
}

DSCH-ID               ::= INTEGER (0..255)
```

. . . Text Omitted . . .

-- G

GapLength ::= INTEGER (1..14)

-- Unit Slot

GapDuration ::= INTEGER (1..144)

--Unit Frame

GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF  
SEQUENCE {  
geographicalCoordinate GeographicalCoordinate,  
iE-Extensions ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL,  
...  
}

GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

GA-AccessPointPosition ::= SEQUENCE {  
geographicalCoordinate GeographicalCoordinate,  
iE-Extensions ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,  
...  
}

GA-AccessPoint-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

GeographicalCoordinate ::= SEQUENCE {  
latitudeSign ENUMERATED { north, south },  
latitude INTEGER (0..8388607),  
longitude INTEGER (-8388608..8388607),  
iE-Extensions ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,  
...  
}

GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
...  
}

. . . Text Omitted . . .

-- T

TDD-ChannelisationCode ::= ENUMERATED {  
chCode1div1,  
chCode2div1,

```
    chCode2div2,  
    chCode4div1,  
    chCode4div2,  
    chCode4div3,  
    chCode4div4,  
    chCode8div1,  
    chCode8div2,  
    chCode8div3,  
    chCode8div4,  
    chCode8div5,  
    chCode8div6,  
    chCode8div7,  
    chCode8div8,  
    chCode16div1,  
    chCode16div2,  
    chCode16div3,  
    chCode16div4,  
    chCode16div5,  
    chCode16div6,  
    chCode16div7,  
    chCode16div8,  
    chCode16div9,  
    chCode16div10,  
    chCode16div11,  
    chCode16div12,  
    chCode16div13,  
    chCode16div14,  
    chCode16div15,  
    chCode16div16,  
    ...  
}  
  
TDD-PhysicalChannelOffset ::= INTEGER (0..63)  
  
TDD-TPC-DownlinkStepSize ::= ENUMERATED {  
    step-size1,  
    step-size2,  
    step-size3,  
    ...  
}  
  
TFCI-Coding ::= ENUMERATED {  
    v4,  
    v8,  
    v16,  
    v32  
}  
  
TFCI-Presence ::= ENUMERATED {  
    present,  
    not-present
```

```

}

TFCI-SignallingMode ::= ENUMERATED {
    normal,
    split
}

TGD ::= INTEGER (0|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)

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,
    rPM             RPM,
    iTPPRM          ITPPRM,
    uL-DL-mode      UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method Uplink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType    DL-FrameType,
    delta-SIR1      DeltaSIR,
    delta-SIR-after1 DeltaSIR,

```

```
delta-SIR2      DeltaSIR      OPTIONAL,
delta-SIR-after2  DeltaSIR      OPTIONAL,
iE-Extensions   ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
...
}
```

```
Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
```

```
Transmission-Gap-Pattern-Sequence-Information-Response ::= ENUMERATED{
code-change,
nocode-change
}
```

## 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 191r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:

August 2000

### Subject:

Procedure Rejection in RNSAP due to Lack of Support on NBAP

### Work item:

### Category:

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

### Release:

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

### Reason for change:

In version 3.2.0 of RNSAP specification there is no explicit way of rejecting a procedure due to lack of support in the "destination" Node B. There is thus no possibility to explicitly reject an RNSAP procedure that is supported on lur but the required action in the DRNC involves an NBAP procedure that is not supported by the Node B.

This CR adds a cause value to enable more explicit information to the SRNC on the cause of the reject in the case described above.

Changes in r1: Syntax error in the ASN.1 corrected.

#### Consequences if this CR is not accepted:

The reject case described above will be less clear and thus the possibility for operators to detect mis-configurations or inter-working problems is reduced..

### Clauses affected:

9.2.1.5 and 9.3.4

### Other specs affected:

Other 3G core specifications

Other GSM core specifications

MS test specifications

BSS test specifications

O&M specifications

→ List of CRs:

→ List of CRs:

→ List of CRs:

→ List of CRs:

→ List of CRs:

→ List of CRs:

### Other comments:

## 9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, No Closed Loop Timing Adjustment Mode configured, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, <a href="#">Transaction not Supported by Destination Node B...</a> )	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	



## 9.3.4 Information Element Definitions

```
-- *****
--
-- Information Element Definitions
--
-- *****

RNSAP-IEs -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    maxCodeNumComp-1,
    maxNoTFCIGroups,
    maxNoCodeGroups,
    maxNrOfErrors,
    maxRateMatching,
    maxNrOfPoints,
    maxNrOfTFCs,
    maxNrOfTFS,
    maxCTFC,
    maxTFCI1Combs,
    maxTFCI2Combs,
    maxTFCI2Combs-1,
    maxTGPS,
    maxTTL-Count
FROM RNSAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes

    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;

.
.
.
    <Parts of the ASN.1 module is skipped.>
.
.
.

-- C
```

```
Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    no-closed-loop-timing-adjustment-mode-configured,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    transaction-not-supported-by-destination-node-b,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
```

**Release 99****3GPP TS 25.423 v.3.2.0 (2000-06)**

```
    transmission-port-not-available,  
    unspecified,  
    ...  
}  
  
C-ID ::= INTEGER (0..65535)  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CellIndividualOffset ::= INTEGER (-20..20)  
  
CellParameterID ::= INTEGER (0..127)  
  
CFN ::= INTEGER (0..255)  
  
ChannelCodingType ::= ENUMERATED {  
    no-coding,  
    convolutional-coding,  
    turbo-coding  
}  
  
ChipOffset ::= INTEGER (0..38399)  
  
ClosedLoopModel-SupportIndicator ::= ENUMERATED {  
    closedLoop-Model-Supported,  
    closedLoop-Model-not-Supported  
}  
  
ClosedLoopMode2-SupportIndicator ::= ENUMERATED {  
    closedLoop-Mode2-Supported,  
    closedLoop-Mode2-not-Supported  
}  
  
Closedlooptimingadjustmentmode ::= ENUMERATED {  
    adj-1-slot,  
    adj-2-slot,  
    ...  
}  
  
CodeNumber ::= INTEGER (0..maxCodeNumComp-1)  
  
CodingRate ::= ENUMERATED {  
    half,  
    third  
}  
  
CRC-Size ::= ENUMERATED {  
    v0,  
    v8,  
    v12,  
    v16,
```

```

    v24
  }

CriticalityDiagnostics ::= SEQUENCE {
  procedureCode          ProcedureCode          OPTIONAL,
  triggeringMessage      TriggeringMessage      OPTIONAL,
  criticalityResponse    Criticality            OPTIONAL,
  transactionID         TransactionID          OPTIONAL,
  iEsCriticalityResponses CriticalityDiagnostics-IE-List,
  iE-Extensions         ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
  ...
}

CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
  SEQUENCE {
    criticalityResponse    Criticality,
    iE-ID                 ProtocolIE-ID,
    repetitionNumber      RepetitionNumber      OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
  }

CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

CTFC ::= INTEGER (0..maxCTFC)

CN-CS-DomainIdentifier ::= SEQUENCE {
  pLMN-ID                PLMN-ID,
  lAC                    LAC,
  iE-Extensions          ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs} } OPTIONAL
}

CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

CN-PS-DomainIdentifier ::= SEQUENCE {
  pLMN-ID                PLMN-ID,
  lAC                    LAC,
  rAC                    RAC,
  iE-Extensions          ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
}

CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

**Release 99**

**3GPP TS 25.423 v.3.2.0 (2000-06)**

```
}  
C-RNTI ::= INTEGER (0..65535)  
-- D  
.  
.  
.  
<The rest of the ASN.1 module is skipped.>  
.  
.  
.
```

## 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 192 R1

Current Version: 3.2.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: TSG RAN#9  
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:**

August 2000

**Subject**

Support for CELL\_FACH to CELL\_DCH state transition

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification

**Release:**

Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:**

In the discussions during R3#15, it was concluded that in order to support the CELL\_FACH state to CELL\_DCH transition well over Iur, diversity info needs to be included in the UL SIGNALLING TRANSFER message as mandatory parameters.

This diversity info will enable the SRNC to know if it can activate STTD or a CLOSED LOOP diversity mode or not. Normally this information is provided in the neighbouring cell information in e.g. the RL\_SETUP\_RESPONSE.

The TX Diversity Indicator IE is not included, since the UE is already on the cell and will know if the cell is using diversity or not.

**Clauses affected:**

**Other specs affected:**

Other 3G core specifications  → List of CRs:   
Other GSM core specifications  → List of CRs:   
MS test specifications  → List of CRs:   
BSS test specifications  → List of CRs:   
O&M specifications  → List of CRs:

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 9.1.24 UPLINK SIGNALLING TRANSFER INDICATION

### 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
UC-Id	M		9.2.1.71		YES	ignore
SAI	M		9.2.1.52		YES	ignore
Cell GAI	O				YES	Ignore
C-RNTI	M		9.2.1.14		YES	ignore
S-RNTI	M		9.2.1.54		YES	ignore
D-RNTI	O		9.2.1.24		YES	ignore
STTD Support Indicator	M		9.2.2.45		YES	Ignore
Closed Loop Mode1 Support Indicator	M		9.2.2.2		YES	Ignore
Closed Loop Mode2 Support Indicator	M		9.2.2.3		YES	Ignore
L3 Information	M		9.2.1.32		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
URA ID	M		9.2.1.70		YES	ignore
Multiple URAs Indicator	M		9.2.1.41		YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCinURA-1>			GLOBAL	ignore
>RNC-Id	M		9.2.1.50		–	

Range bound	Explanation
MaxRNCinURA	Maximum number of RNC in one URA

### 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
UC-Id	M		9.2.1.71		YES	ignore
SAI	M		9.2.1.52		YES	ignore
Cell GAI	O				YES	Ignore
C-RNTI	M		9.2.1.14		YES	ignore
S-RNTI	M		9.2.1.54		YES	ignore
D-RNTI	O		9.2.1.24		YES	ignore
L3 Information	M		9.2.1.32		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
URA ID	M		9.2.1.70		YES	ignore
Multiple URAs Indicator	M		9.2.1.41		YES	ignore
<b>RNCs with Cells in the Accessed URA</b>		0 .. <MaxRNCinURA-1>			GLOBAL	ignore
>RNC-Id	M		9.2.1.50		–	

Range bound	Explanation
MaxRNCinURA	Maximum number of RNC in one URA

## 9.3.2 Elementary Procedure Definitions

```

-- *****
--
-- Elementary Procedure definitions
--
-- *****

RNSAP-PDU-Descriptions -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    ProcedureID,
    TransactionID
FROM RNSAP-CommonDataTypes

    CommonTransportChannelResourcesFailure,
    CommonTransportChannelResourcesRequest,
    CommonTransportChannelResourcesReleaseRequest,
    CommonTransportChannelResourcesResponseFDD,
    CommonTransportChannelResourcesResponseTDD,
    CompressedModeCommand,
    DedicatedMeasurementFailureIndication,
    DedicatedMeasurementInitiationFailure,
    DedicatedMeasurementInitiationRequest,
    DedicatedMeasurementInitiationResponse,
    DedicatedMeasurementReport,
    DedicatedMeasurementTerminationRequest,
    DL-PowerControlRequest,
    DownlinkSignallingTransferRequest,
    ErrorIndication,
    PagingRequest,
    PhysicalChannelReconfigurationCommand,
    PhysicalChannelReconfigurationFailure,
    PhysicalChannelReconfigurationRequestFDD,
    PhysicalChannelReconfigurationRequestTDD,
    PrivateMessage,
    RadioLinkAdditionFailureFDD,
    RadioLinkAdditionFailureTDD,
    RadioLinkAdditionRequestFDD,
    RadioLinkAdditionRequestTDD,
    RadioLinkAdditionResponseFDD,
    RadioLinkAdditionResponseTDD,
    RadioLinkDeletionRequest,
    RadioLinkDeletionResponse,
    RadioLinkFailureIndication,
    RadioLinkReconfigurationCancel,
    RadioLinkReconfigurationCommit,
    RadioLinkReconfigurationFailure,
    RadioLinkReconfigurationPrepareFDD,
    RadioLinkReconfigurationPrepareTDD,
    RadioLinkReconfigurationReadyFDD,
    RadioLinkReconfigurationReadyTDD,
    RadioLinkReconfigurationRequestFDD,
    RadioLinkReconfigurationRequestTDD,
    RadioLinkReconfigurationResponse,
    RadioLinkRestoreIndication,
    RadioLinkSetupFailureFDD,
    RadioLinkSetupFailureTDD,
    RadioLinkSetupRequestFDD,
    RadioLinkSetupRequestTDD,
    RadioLinkSetupResponseFDD,
    RadioLinkSetupResponseTDD,
    RelocationCommit,
    UplinkSignallingTransferIndicationFDD,
    UplinkSignallingTransferIndicationTDD
FROM RNSAP-PDU-Contents

    id-commonTransportChannelResourcesInitiationFDD,
    id-commonTransportChannelResourcesInitiationTDD,
    id-commonTransportChannelResourcesRelease,
    id-compressedModeCommandFDD,

```



```

id-downlinkPowerControl,
id-downlinkSignallingTransfer,
id-errorIndication,
id-measurementFailure,
id-measurementInitiation,
id-measurementReporting,
id-measurementTermination,
id-pagingRequest,
id-physicalChannelReconfiguration,
id-privateMessage,
id-radioLinkAddition,
id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkRestoration,
id-radioLinkSetup,
id-srnsRelocationCommit,
id-synchronisedRadioLinkReconfigurationCancellation,
id-synchronisedRadioLinkReconfigurationCommit,
id-synchronisedRadioLinkReconfigurationPrepare,
id-unsynchronisedRadioLinkReconfiguration,
id-uplinkSignallingTransferFDD,
id-uplinkSignallingTransferTDD
FROM RNSAP-Constants;

-- *****
--
-- Interface Elementary Procedure Class
--
-- *****

// parts skipped

commonTransportChannelResourcesInitiationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelResourcesRequest
  SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
  UNSUCCESSFUL OUTCOME CommonTransportChannelResourcesFailure
  PROCEDURE ID { procedureCode id-commonTransportChannelResourcesInitiationTDD, ddMode
commonTDD }
  CRITICALITY reject
}

uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE UplinkSignallingTransferIndicationFDD
  PROCEDURE ID { procedureCode id-uplinkSignallingTransferFDD, ddMode commonFDD }
  CRITICALITY ignore
}

uplinkSignallingTransferTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE UplinkSignallingTransferIndicationTDD
  PROCEDURE ID { procedureCode id-uplinkSignallingTransferTDD, ddMode tdd }
  CRITICALITY ignore
}

downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE DownlinkSignallingTransferRequest
  PROCEDURE ID { procedureCode id-downlinkSignallingTransfer, ddMode common }
  CRITICALITY ignore
}

// parts skipped

```

### 9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for RNSAP
--
-- *****

// parts skipped

    id-CauseLevel-RL-ReconfFailure,
    id-CauseLevel-RL-SetupFailureFDD,
    id-CauseLevel-RL-SetupFailureTDD,
    id-CellItem-PagingRqst,
    id_ClosedLoopModel-SupportIndicator,
    id-ClosedLoopMode2-SupportIndicator,
    id-CombiningItem-RL-AdditionFailureFDD,
    id-CombiningItem-RL-AdditionRspFDD,
    id-CombiningItem-RL-AdditionRspTDD,
    id-CombiningItem-RL-SetupFailureFDD,

// parts skipped

    id-RLSpecificCauseItem-RL-ReconfFailure,
    id-RLSpecificCauseItem-RL-SetupFailureFDD,
    id-RLSpecificCauseItem-RL-SetupFailureTDD,
    id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD,
    id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD,
    id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD,
    id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD,
    id-ReportCharacteristics,
    id-Reporting-Object-RL-FailureInd,
    id-Reporting-Object-RL-RestoreInd,
    id-SRNC-ID,
    id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
    id-STTD-SupportIndicator,
    id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
    id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,

// parts skipped
```

```

-- *****
--
| -- UPLINK SIGNALLING TRANSFER INDICATION_FDD
--
-- *****

UplinkSignallingTransferIndicationFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{UplinkSignallingTransferIndicationFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{UplinkSignallingTransferIndicationFDD-Extensions}} OPTIONAL,
  ...
}

UplinkSignallingTransferIndicationFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UC-ID          CRITICALITY ignore TYPE UC-ID          PRESENCE mandatory } |
  { ID id-SAI           CRITICALITY ignore TYPE SAI            PRESENCE mandatory } |
  { ID id-GA-Cell       CRITICALITY ignore TYPE GA-Cell        PRESENCE optional  } |
  { ID id-C-RNTI        CRITICALITY ignore TYPE C-RNTI         PRESENCE mandatory } |
  { 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}}
  ...
}
```

```
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-STTD-SupportIndicator CRITICALITY ignore TYPE STTD-SupportIndicator PRESENCE mandatory } |
  { ID id-ClosedLoopModel1-SupportIndicator CRITICALITY ignore TYPE ClosedLoopModel1-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-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 ::= {
  ...
}
```



## 9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

RNSAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD          INTEGER ::= 1
id-commonTransportChannelResourcesRelease                INTEGER ::= 2
id-compressedModeCommandFDD                             INTEGER ::= 4
id-downlinkPowerControl                                 INTEGER ::= 6
id-downlinkSignallingTransfer                           INTEGER ::= 7
id-errorIndication                                       INTEGER ::= 8
id-measurementFailure                                    INTEGER ::= 9
id-measurementInitiation                                 INTEGER ::= 10
id-measurementReporting                                  INTEGER ::= 11
id-measurementTermination                               INTEGER ::= 12
id-pagingRequest                                         INTEGER ::= 13
id-physicalChannelReconfiguration                       INTEGER ::= 14
id-privateMessage                                        INTEGER ::= 15
id-radioLinkAddition                                    INTEGER ::= 16
id-radioLinkDeletion                                    INTEGER ::= 17
id-radioLinkFailure                                     INTEGER ::= 18
id-radioLinkRestoration                                 INTEGER ::= 19
id-radioLinkSetup                                        INTEGER ::= 20
id-srnsRelocationCommit                                 INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation      INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit           INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare          INTEGER ::= 24
id-unSynchronisedRadioLinkReconfiguration              INTEGER ::= 25
id-uplinkSignallingTransferFDD                          INTEGER ::= 26
id-uplinkSignallingTransferTDD                          INTEGER ::= xx

// parts skipped

-- *****
--
-- IEs

```

```

--
-- *****
id-AllowedQueuingTime                INTEGER ::= 4
id-BindingID                          INTEGER ::= 5
id-C-ID                               INTEGER ::= 6
id-C-RNTI                             INTEGER ::= 7
id-CFN                                INTEGER ::= 8
id-CN-CS-DomainIdentifier             INTEGER ::= 9
id-CN-PS-DomainIdentifier             INTEGER ::= 10
id-Cause                              INTEGER ::= 11
id-CellItem-PagingRqst                INTEGER ::= 12
id_ClosedLoopMode1-SupportIndicator   INTEGER ::= xx
id-ClosedLoopMode2-SupportIndicator   INTEGER ::= xx
id-CombiningItem-RL-AdditionFailureFDD INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD    INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD    INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD   INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD       INTEGER ::= 19

// parts skipped

id-RL-Set-InformationItem-DM-Rqst     INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp      INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd   INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd   INTEGER ::= 147
id-RL-SetItem-DM-Rprt                 INTEGER ::= 148
id-RL-SetItem-DM-Rqst                 INTEGER ::= 149
id-RL-SetItem-DM-Rsp                  INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD INTEGER ::= 151
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD INTEGER ::= xxx
id-ReportCharacteristics               INTEGER ::= 152
id-Reporting-Object-RL-FailureInd      INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd      INTEGER ::= 154
id-S-RNTI                             INTEGER ::= 155
id-SAI                                INTEGER ::= 156
id-SRNC-ID                            INTEGER ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD INTEGER ::= 158
id-STTD-SupportIndicator               INTEGER ::= xxx
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD   INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD INTEGER ::= 161

//parts skipped

```

## 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 193**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

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:** **August 2000**

**Subject:** **RNSAP Support for switching from Cell\_DCH to URA\_PCH State**

**Work item:**

**Category:**

(only one category shall be marked with an X)

- F Correction
- A Corresponds to a correction in an earlier release
- B Addition of feature
- C Functional modification of feature
- D Editorial modification

**Release:** Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

**Reason for change:**

In version 3.2.0 of the RNSAP specification there is currently no support for direct switching from Cell\_DCH to URA\_PCH state. RAN WG2 has recently introduced this state change possibility in their specifications. The problem in RNSAP is that the SRNC does not know the URA ID when the UE is in Cell\_DCH state.

This CR introduces the URA ID as part of the information provided to the SRNC for each successfully established RL (in the RL Setup and RL Addition procedures).

**Clauses affected:** **9.1.4, 9.1.5.1, 9.1.7, 9.1.8.1, and 9.3.3**

**Other specs affected:**

Other 3G core specifications  → List of CRs:

Other GSM core specifications  → List of CRs:

MS test specifications  → List of CRs:

BSS test specifications  → List of CRs:

O&M specifications  → List of CRs:

**Other comments:**



## 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				–	
>UL Interference Level	M		9.2.1.68		–	
> <b>Secondary CCPCH Info</b>		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$ , see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> <b>FACH/PCH Information</b>		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> <b>Scheduling Information</b>		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>> <b>Segment Information</b>		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> <b>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		–	
>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		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		9.2.1.6			

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
<b>&gt;&gt;Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneighbours&gt;</i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink 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

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	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 Interference Level	M		9.2.1.68		–	
>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		–	
<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>		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<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>		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<b>&gt;DCH Information</b>		1..<maxno		Only one	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>Response</b>		<i>ofDCHs&gt;</i>		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		–	
<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 ofneighbouringRNCs &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;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	O		9.2.1.44		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Power						
>>>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 hbours&gt;</i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink 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.

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 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...<maxn oofRLs>			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		-	
>>>UL Interference Level	M		9.2.1.68		-	
>>>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		-	
>>>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	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		-	
>>>DSCH Information		0..<maxno			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>Response</b>		<i>ofDSCHs&gt;</i>				
>>>>DSCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>> <b>Neighbouring Cell Information</b>	O	<i>0..&lt;maxnoof neighbourin gRNCs&gt;</i>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>> <b>Per FDD Cell Information</b>		<i>0..&lt;maxno ofFDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>>>> <b>Per TDD Cell Information</b>		<i>0..&lt;maxno ofTDDneig hbours&gt;</i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH 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
Downlink SIR Target	O		Uplink SIR		YES	Ignore



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
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				–	
>UL Interference Level	M		9.2.1.68		–	
>> <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		-	
>Neighbouring Cell Information		0..<maxnoof neighbouringRNCs>			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>			-	
>>>C-Id	M		9.2.1.6		-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref.	-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[7]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>URA ID	M		9.2.1.70		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
<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>		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
<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>		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>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
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxnoofDCHs>		Only one DCH per set of co-ordinated DCHs shall	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				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		–	
<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			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 USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
<b>&gt;&gt;CHOICE Diversity Indication</b>					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
<b>&gt;Neighbouring Cell Information</b>		0..<maxnoofn eighbouringR NCs>			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>		0..<maxnoof FDDneighbo urs>			–	
>>>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]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>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

## 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		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>>DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>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	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		–	
>>>Neighbouring Cell Information		0..<maxnoofn eighbouringR NCs>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	



IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>>Per FDD Cell Information		<i>0..&lt;maxnoof FDDneighbors&gt;</i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7			
>>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>>STTD Support Indicator	O		9.2.2.45			
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>>>Per TDD Cell Information		<i>0..&lt;maxnoof TDDneighbors&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

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

.
.
.
  <Parts of the ASN.1 module is skipped.>
.
.
.

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
  ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
  { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
  { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-SetupRspFDD
    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

```

```

}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    uRA-ID               URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferenceLevel UL-InterferenceLevel,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-SetupRspFDD OPTIONAL,
    dl-CodeInformation   DL-CodeInformationList-RL-SetupRspFDD,
    diversityIndication DiversityIndication-RL-SetupRspFDD,
    -- 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,
    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 OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory },

```

```

}
...
}
DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL    NonCombiningOrFirstRL-RL-SetupRspFDD,
    ...
}
Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}
CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-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-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}

DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE    DSCH-InformationResponseItem-RL-SetupRspFDD PRESENCE    mandatory
    },
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dschInformation        DSCHInformation-RL-SetupRspFDD,
    pdSCHCodeMapping       PDSCHCodeMapping,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCHInformation-RL-SetupRspFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator       PriorityIndicator-RL-SetupRspFDD,
    bindingID               BindingID,
    transportLayerAddress   TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformation-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD

PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator    SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths          MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
    iE-Extensions                  ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

**Release 99****3GPP 25.423 v.3.2.0 (2000-06)**

```
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-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,
  closedLoopMode1-SupportIndicator ClosedLoopMode1-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-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  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,
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,
    ul-InterferenceLevel    UL-InterferenceLevel,
    iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD    PRESENCE mandatory },
    ...
}

UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cTrCH-ID                CCTrCH-ID,
    ul-DPCH-Information      UL-DPCH-InformationList-RL-SetupRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
UL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-SetupRspTDD} }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD    CRITICALITY ignore  TYPE UL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift          MidambleShift,
  timeSlot               TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore  TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  cCCTrCH-ID                CCTrCH-ID,
  dl-DPCH-Information        DL-DPCH-InformationList-RL-SetupRspTDD,
  iE-Extensions              ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE DL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory },
    ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE DCH-InformationResponseListIE-RL-SetupRspTDD  PRESENCE mandatory
    },
    ...
}

DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD

DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{DSCH-InformationList-RL-SetupRspTDD}}

DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD      CRITICALITY ignore  TYPE DSCH-InformationListIEs-RL-SetupRspTDD  PRESENCE mandatory },
    ...
}

```

```

DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspTDD,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths       MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{USCH-InformationList-RL-SetupRspTDD}}

USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD      CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
    ...
}

USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

RadioLinkSetupFailureFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupFailureFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI          CRITICALITY ignore  TYPE D-RNTI          PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier  CRITICALITY ignore  TYPE CN-PS-DomainIdentifier  PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier  CRITICALITY ignore  TYPE CN-CS-DomainIdentifier  PRESENCE optional } |
  { 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-DL-SIRTarget          CRITICALITY ignore  TYPE DL-SIRTarget          PRESENCE optional } |
  { ID id-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause          GeneralCauseList-RL-SetupFailureFDD,
  rLspecificCause       RLspecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE GeneralCauseItem-RL-SetupFailureFDD  PRESENCE
mandatory },
  ...
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  cause                  Cause,
  iE-Extensions          ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} }  OPTIONAL,
  ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE RLSpecificCauseItem-RL-SetupFailureFDD
  PRESENCE mandatory },
  ...
}

RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-SetupFailureFDD UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
  successful-RL-InformationRespList-RL-SetupFailureFDD SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1 { {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,
ul-InterferenceLevel  UL-InterferenceLevel,
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,
dSCH-InformationResponse-RL-SetupFailureFDD  DSCH-InformationResponseList-RL-SetupFailureFDD  OPTIONAL,
neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-SetupFailureFDD  OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD  RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD  CRITICALITY ignore  TYPE DL-CodeInformationListIE-RL-SetupFailureFDD  PRESENCE mandatory
},
...
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupFailureFDD

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}

DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs  RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupFailureFDD }}

DiversityIndicationIE-RL-SetupFailureFDD  RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE DiversityIndicationItem-RL-SetupFailureFDD  PRESENCE mandatory },
...
}

```



```

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
    combining                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL    NonCombiningOrFirstRL-RL-SetupFailureFDD,
    ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupFailureFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupFailureFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-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,
    ...
}

```

**Release 99****3GPP TS 25.423 v.3.2.0 (2000-06)**

```
DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}

DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD    CRITICALITY ignore    TYPE DSCH-InformationResponseListIE-RL-SetupFailureFDD    PRESENCE
    mandatory },
    ...
}

DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(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-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 ::= {
  ...
}

```

•

```

.
.
.  <Parts of the ASN.1 module is skipped.>
.
.
.

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs              ProtocolIE-Container      {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions       ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
    ...                      OPTIONAL,
}

RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore  TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory
    } |
    { ID id-CriticalityDiagnostics                          CRITICALITY ignore  TYPE CriticalityDiagnostics      PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD    CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE
mandatory },
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    rL-Set-ID                RL-Set-ID,
    uRA-ID                  URA-ID,
    sAI                      SAI,
    gA-Cell                  GA-Cell    OPTIONAL,
    gA-AccessPointPosition   GA-AccessPointPosition  OPTIONAL,
    ul-InterferenceLevel      UL-InterferenceLevel,
    secondary-CCPCH-Info      Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation         DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication        DiversityIndication-RL-AdditionRspFDD,
    -- 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,

```

```

    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-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}

DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionRspFDD

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response    Transmission-Gap-Pattern-Sequence-Information-Response    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionRspFDD }}

DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
    combining                Combining-RL-AdditionRspFDD,
    nonCombining            NonCombining-RL-AdditionRspFDD,
    ...
}

Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },

```

```

}
...
}
CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionRspFDD }}

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspFDD    DCH-InformationResponseList-RL-AdditionRspFDD,
    iE-Extensions                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionRsp }}

Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionRsp    CRITICALITY ignore    TYPE    Neighbouring-CellInformationItem-RL-AdditionRsp    PRESENCE
    mandatory },
    ...
}

```

```

}

Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
    per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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,
    closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionRsp

Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNt         UARFCN,
    frameOffset         FrameOffset OPTIONAL,
    cellParameterID     CellParameterID,
    syncCase            SyncCase,
    timeSlot            TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot        SCH-TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator Block-STTD-Indicator,

```



## Release 99

## 3GPP TS 25.423 v.3.2.0 (2000-06)

```

    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,
    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,
    dSCH-InformationResponse    DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponse    USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,

```

**Release 99****3GPP 25.423 v.3.2.0 (2000-06)**

```
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,
ul-InterferenceLevel UL-InterferenceLevel,
iE-Extensions ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE mandatory
},
...
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD

UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
cCTrCH-ID CCTrCH-ID,
ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD,
iE-Extensions ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory },
...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
```

## Release 99

## 3GPP TS 25.423 v.3.2.0 (2000-06)

```

    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD  PRESENCE mandatory
    },
    ...
}

DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD

DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-Information       DL-DPCH-InformationList-RL-AdditionRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD  PRESENCE mandatory },
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,

```

```

    tDD-PhysicalChannelOffset      TDD-PhysicalChannelOffset,
    repetitionPeriod               RepetitionPeriod,
    repetitionLength               RepetitionLength,
    tFCI-Presence                  TFCI-Presence,
    iE-Extensions                  ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}

DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE DiversityIndicationItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionRspTDD ::= CHOICE {
    combining          Combining-RL-AdditionRspTDD,
    nonCombining      NonCombining-RL-AdditionRspTDD,
    ...
}

Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{CombiningIE-RL-AdditionRspTDD}}

CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE CombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID              RL-ID,
    iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspTDD ::= ProtocolIE-Container {{NonCombiningIE-RL-AdditionRspTDD}}

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE NonCombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

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-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,
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-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE USCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD

USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    diversityIndication 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-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}
GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore
  TYPE GeneralCauseItem-RL-AdditionFailureFDD          PRESENCE mandatory },
  ...
}
GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
  cause          Cause,
  iE-Extensions  ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}
RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore          TYPE RLSpecificCauseItem-RL-
  AdditionFailureFDD          PRESENCE mandatory},
  ...
}
RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD  UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
  successful-RL-InformationRespList-RL-AdditionFailureFDD    SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-
IEs} }

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD      PRESENCE mandatory  },
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  cause                Cause,
  iE-Extensions        ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD      CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
  PRESENCE mandatory  },
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  uRA-ID               URA-ID,
  sAI                  SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  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,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```



```

}
...
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD  CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionFailureFDD  PRESENCE
  mandatory },
  ...
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-AdditionFailureFDD  CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD  PRESENCE
  mandatory },
  ...
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
  combining          Combining-RL-AdditionFailureFDD,
  nonCombining       NonCombining-RL-AdditionFailureFDD,
  ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionFailureFDD  CRITICALITY ignore TYPE CombiningItem-RL-AdditionFailureFDD  PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID              RL-ID,
  iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionFailureFDD      DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions                                     ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD

DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE    Neighbouring-CellInformationItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionFailureFDD    OPTIONAL,
    per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionFailureFDD    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
}

```

```

}
...
}
Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
Per-FDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD
Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
c-ID C-ID,
uARFCNforNu UARFCN,
uARFCNforNd UARFCN,
frameOffset FrameOffset OPTIONAL,
primaryScramblingCode PrimaryScramblingCode,
primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
cellIndividualOffset CellIndividualOffset OPTIONAL,
txDiversityIndicator TxDiversityIndicator,
sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
...
}
Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
Per-TDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD
Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
c-ID C-ID,
uARFCNforNt UARFCN,
frameOffset FrameOffset OPTIONAL,
cellParameterID CellParameterID,
syncCase SyncCase,
timeSlot TimeSlot OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot SCH-TimeSlot OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator Block-STTD-Indicator,
cellIndividualOffset CellIndividualOffset OPTIONAL,
dPCHConstantValue DPCHConstantValue OPTIONAL,
pCCPCH-Power PCCPCH-Power,
iE-Extensions ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
...
}

```

**Release 99**

**3GPPS 25.423 v.3.2.0 (2000-06)**

```
Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```
•  
•  
•
```

```
<The rest of the ASN.1 module is skipped.>
```

```
•  
•  
•
```