

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

TSGRP#9(00)0381

Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num
R3-002302	25.423	194		Correction to range of repetition indicator	F	agreed	3.2.0	3.3.0
R3-002324	25.423	195		New Abstract syntax error for wrong order or number or IEs	F	agreed	3.2.0	3.3.0
R3-002379	25.423	196	2	RNSAP Common IEs	F	agreed	3.2.0	3.3.0
R3-002377	25.423	197	1	Extensability RNSAP FDD IEs	F	agreed	3.2.0	3.3.0
R3-002378	25.423	198	1	RNSAP TDD IEs	F	agreed	3.2.0	3.3.0
R3-002361	25.423	199		Procedure Rejection in RNSAP due to Unknown Procedure ID	F	agreed	3.2.0	3.3.0
R3-002384	25.423	200	1	Combined ASN.1 definition based on agreed CRsProcedure ID	F	agreed	3.2.0	3.3.0

<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.				
25.423	CR	194				
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team				
For submission to: RAN#9	For approval for information	Current Version: 3.2.0				
list expected approval meeting # here ↑	<table border="1" style="border-collapse: collapse;"> <tr><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;"> </td></tr> </table>	X		<table border="1" style="border-collapse: collapse;"> <tr><td style="text-align: center;">strategic</td></tr> <tr><td style="text-align: center;">non-strategic</td></tr> </table> (for SMG use only)	strategic	non-strategic
X						
strategic						
non-strategic						

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

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

Source: R-WG3 **Date:** 23 Aug 00

Subject: Correction to range of repetition indicator

Work item: _____

Category:	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"/>	Release:	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: Currently in all R3 control plane signalling specifications the repetition indicator within the criticality diagnostics IE has range 0..255. This CR proposes changing that range to 1..256 for two reasons:
 a) repetition number of 0 makes no sense
 b) there are some cases where 256 repetitions are possible

Clauses affected: 9.2.1.13, 9.3.4

Other specs affected:	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.413 CR182, 25.433 CR236, 25.419 CR21 → 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.

9.2.1.13 Criticality Diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
>Procedure Code	O		INTEGER (0..255)	Procedure code is to be used if Criticality diagnostics is part of Error Indication procedure, and not within the response message of the same operation that caused the error
>Triggering Message	O		ENUMERATED (initiating message, successful outcome, unsuccessful outcome)	The Triggering Message is used only if the Criticality diagnostics is part of Error Indication except when the procedure code is not understood.
>Criticality Response	O		ENUMERATED (reject, ignore, notify)	This Criticality response IE is used for reporting the Criticality of the Triggering message
>Transaction ID	O		INTEGER (0..255)	
Information Element Criticality Diagnostics		<i>1..<maxnoof errors></i>		
>Criticality Response	M		ENUMERATED (reject, ignore, notify)	The Criticality response IE is used for reporting the criticality of the triggering IE. The value 'Ignore' shall never be used.
>IE Id	M		INTEGER (0..65535)	The IE Id of the not understood or missing IE as defined in the ASN.1 part of the specification.
>Repetition Number	O		INTEGER (10 ..2565)	The repetition number of the not understood IE if applicable

Range bound	Explanation
maxnooferrors	Maximum number. of IE errors allowed to be reported with a single message.

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;
```

```
-----
-- SOME ASN.1 MISSING --
-----
```

```
RepetitionNumber ::= INTEGER (01..2556)
```

```
-----
-- SOME ASN.1 MISSING --
```

| -----*

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	195
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: TSG RAN #9	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>
list expected approval meeting # here ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/> (for SMG use only)

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

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

Source: R-WG3 **Date:** 24.08.00

Subject: New Abstract Syntax Error for wrong order or number of IEs

Work item:

Category:	F Correction <input checked="" type="checkbox"/>	Release:	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: It has been defined in Section 9.3 that the order of IEs and the number of their occurrence should be as specified in that section, even though ASN.1 decoding rules allow otherwise. Also it is stated that if a message structured otherwise is received, this shall be considered an Abstract Syntax Error, and treated as specified in section 10. However, that case is not covered in section 10, and this CR proposes the corresponding definition.

If this CR is not implemented, a receiving entity will not know how to behave in the defined error case for receiving correct IEs but in wrong construction.

Clauses affected: 9.2.1.5, 9.3.0, 9.3.4, 10.3.1 and new section 10.3.7

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

Other comments:



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

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...)	
> <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, Abstract Syntax Error (Falsely Constructed Message) ...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

NEXT MODIFIED SECTION

9.3.0 General

Section 9.3 presents the Abstract Syntax of RNSAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this section and the tabular format in sections 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of RNSAP messages. RNSAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a RNSAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a RNSAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in section 10.3.7.

precedence.

NEXT MODIFIED SECTION**9.3.4 Information Element Definitions****Unaffected ASN.1 definition not shown**

```
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,
    abstract-syntax-error-falsely-constructed-message,
    ...
}

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,  
    unspecified,  
    ...  
}  
  
CauseTransport ::= ENUMERATED {  
    transmission-link-failure,  
    transmission-port-not-available,  
    unspecified,  
    ...  
}
```

Unaffected ASN.1 definition not shown

NEXT MODIFIED SECTION

10.3 Abstract Syntax Error

10.3.1 General

An Abstract Syntax Error occurs when the receiving functional RNSAP entity:

1. receives IEs or IE groups that cannot be understood (unknown IE id);
2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
3. does not receive IEs or IE groups but according to the specified presence of the concerning object, the IEs or IE groups should have been present in the received message
4. [receives IEs or IE groups that are defined to be part of that message in wrong order or with too many occurrences of the same IE or IE group](#)

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver. [Case 4 \(IEs or IE groups in wrong order or with too many occurrences\) results in rejecting the procedure.](#)

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error [that belong to cases 1-3](#) act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5. [The handling of case 4 is specified in subclause 10.3.7.](#)

10.3.2 Criticality Information

In the RNSAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in subclause 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

1. Reject IE;
2. Ignore IE and Notify Sender;
3. Ignore IE.

10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, RNSAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field of the concerning object of class RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR, RNSAP-PROTOCOL-EXTENSION or RNSAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:

1. Optional;

2. Conditional;
3. Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

10.3.4 Not Comprehended IE/IE group

10.3.4.1 Procedure Code

The receiving node shall treat the different types of received criticality information of the *Procedure Code* according to the following:

Reject IE:

- if a message is received with a *Procedure Code* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:

- if a message is received with a *Procedure Code* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:

- if a message is received with a *Procedure Code* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* according to the following:

Reject IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- if a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*", that the receiving node does not comprehend, the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- if a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and initiate the Error Indication procedure.

Ignore IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

10.3.5 Missing IE or IE group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

Reject IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate the Error Indication procedure.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall initiate the Error Indication procedure.

Ignore IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message.

10.3.6 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality information of the IEs/IE groups containing the erroneous values.

Class 1:

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a failure message, the failure message shall be sent with an appropriate cause value. Typical cause values are:

Protocol Causes:

1. Semantic Error;
2. Message not Compatible with Receiver State.

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a failure message, the Error Indication procedure shall be initiated with an appropriate cause value.

Where the logical error exists in a response message of a class 1 procedure, local error handling shall be initiated.

Class 2:

Where the logical error occurs in a message of a class 2 procedure, the Error Indication procedure shall be initiated with an appropriate cause value.

10.3.7 IEs or IE groups received in wrong order or with too many occurrences

If a message with IEs or IE groups in wrong order or with too many occurrences is received, the receiving node shall behave according to the following:

- If a message *initiating* a procedure is received containing IEs or IE groups in wrong order or with too many occurrences, none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the cause value "Abstract Syntax Error (Falsely Constructed Message)" using the message normally used to report unsuccessful outcome of the procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing IEs or IE groups in wrong order or with too many occurrences, the receiving node shall initiate the Error Indication procedure, and use cause value "Abstract Syntax Error (Falsely Constructed Message)".
- If a *response* message is received containing IEs or IE groups in wrong order or with too many occurrences, the receiving node shall initiate local error handling.



help.doc

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

9.2.1 Common Parameters

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

9.2.1.1 Allocation/Retention Priority

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

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

9.2.1.2 Allowed Queuing Time

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

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

9.2.1.3 Binding ID

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

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

9.2.1.4 BLER

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

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

9.2.1.5 Cause

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
> <i>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...)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

9.2.1.5A Cell Geographical Area Identity (Cell GAI)

The Cell Geographical Area is used to identify the geographical area of a cell. The area is represented as a polygon. See ref. [25].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell GAI				
>Geographical Coordinates		1 .. <maxnoofPoints>		
>>Latitude Sign	M		ENUMERATED (North, South)	
>>Degrees of Latitude	M		INTEGER (0...2 ²³ -1)	The IE value (N) is derived by this formula: $N \leq 2^{23} \times X / 90 < N+1$ X being the latitude in degree (0°.. 90°)
>>Degrees of Longitude	M		INTEGER (-2 ²³ ...2 ²³ -1)	The IE value (N) is derived by this formula: $N \leq 2^{24} \times X / 360 < N+1$ X being the longitude in degree (-180°..+180°)

Range bound	Explanation
<i>maxnoofPoints</i>	Maximum no. of points in polygon.

9.2.1.6 Cell Identifier (C-Id)

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

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

9.2.1.7 Cell Individual Offset

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Individual Offset			Integer (-20,...,+20)	-20 -> -10dB -19 -> -9.5dB ... +20 -> +10dB

9.2.1.8 Cell Parameter ID

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

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

9.2.1.9 CFN

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

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

9.2.1.10 CFN Offset

Activation time for the compressed mode pattern.

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

9.2.1.11 CN CS Domain Identifier

Identification of the CN node in the CS Domain.

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

9.2.1.12 CN PS Domain Identifier

Identification of the CN Node in the PS Domain.

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

9.2.1.13 Criticality Diagnostics

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

Range bound	Explanation
maxnooferrors	Maximum number. of IE errors allowed to be reported with a single message.

9.2.1.14 C-RNTI

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

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

9.2.1.15 DCH Combination Indicator

Void

9.2.1.16 DCH ID

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

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

9.2.1.17 Dedicated Measurement Object Type

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

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

9.2.1.18 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 is 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
Dedicated measurement Value				
>SIR Value	C <i>MeasValue</i>		INTEGER(0. .63)	According to mapping in ref. [11] and [14]
>SIR Error Value	C <i>MeasValue</i>		INTEGER(0. .125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0. .127)	According to mapping in ref. [11] and [14]
>RSCP	C <i>MeasValue</i>		INTEGER(0. .81)	According to mapping in ref. [14] (TDD only)
>Rx Timing Deviation	C <i>MeasValue</i>		INTEGER(0. .2047)	According to mapping in [14] [TDD]
>Round Trip Time	C <i>MeasValue</i>		INTEGER(0. .8191)	According to mapping in [11] [FDD]

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

9.2.1.20 Diversity Control Field

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

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

9.2.1.21 Diversity Indication

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

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

9.2.1.22 Downlink SIR Target

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

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

9.2.1.23 DPCH Constant Value

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DPCH Constant Value			INTEGER (-10...10)	Unit dB Granularity 1 dB.

9.2.1.24 D-RNTI

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

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

9.2.1.25 D-RNTI Release Indication

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

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

9.2.1.26 DRX Cycle Length Coefficient

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

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

9.2.1.26A DSCH ID

The DSCH ID is the identifier of an active downlink shared channel. It is unique for each active DSCH among the active DSCHs simultaneously allocated for the same UE.

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

9.2.1.27 FACH Initial Window Size

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

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

9.2.1.28 FACH Priority Indicator

Void

9.2.1.29 Frame Handling Priority

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

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

9.2.1.30 Frame Offset

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

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

9.2.1.31 IMSI

The IMSI is the permanent UE user Identity, see ref. [1].

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

9.2.1.32 L3 Information

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
L3 Information			Bit String	The content is defined in ref. [16]

9.2.1.33 Limited Power Increase

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

If the limited power increase is used, DRNS shall 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 ,)	

9.2.1.34 MAC-c/sh SDU Length

Indicates the MAC-c/sh SDU Length. Which is used for FACH, DSCH and USCH. There may be multiple MAC-c/sh SDU Lengths per priority class.

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

9.2.1.35 Maximum Allowed UL Tx Power

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

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

9.2.1.35A Measurement Availability Indicator

Indicates if measurement is available or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Availability Indicator			ENUMERATED(measurement available, measurement not available)	

9.2.1.36 Measurement Filter Coefficient

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Filter Coefficient	M		ENUMERATED(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19, ...)	

9.2.1.37 Measurement ID

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

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

9.2.1.38 Measurement Increase/Decrease Threshold

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

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
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
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

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. [11] and [14].
SIR Error	<i>C – Threshold</i>		INTEGER(0..125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..127)	According to mapping in ref. [11] and [14].
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in ref. [14] (TDD only)
Rx Timing Deviation	<i>C - Threshold</i>		INTEGER(0..2047)	According to mapping in [14] (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0..8191)	According to mapping in 25.215 (FDD only)

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

9.2.1.40 Message Type

The Message Type uniquely identifies the message being sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Message Type				
>Procedure ID		1		
>>Procedure Code	M		ENUMERATED (RL Setup, RL Addition, RL Deletion, Synchronised RL Reconfiguration Preparation, Synchronised RL Reconfiguration Commit, Synchronised RL Reconfiguration Cancel, Unsynchronised RL Reconfiguration Request, RL Failure, RL Restoration, DL Power Control, Physical Channel Reconfiguration, UL Signalling Transfer, DL Signalling Transfer, Relocation Commit, Paging, Measurement Initiation, Measurement Reporting, Measurement Termination, Measurement Failure, Common Transport Channel Resources Initiation, Common Transport Channel Resources Release, Compressed Mode Command, Error Indication, ...)	
>>Ddmode	M		ENUMERATED (FDD, TDD, Common)	Common = common to FDD and TDD.
>Type of Message	M		ENUMERATED (Initiating Message, Successful Outcome, Unsuccessful Outcome, Outcome)	

9.2.1.41 Multiple URAs Indicator

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

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

9.2.1.42 Payload CRC Present Indicator

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

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

9.2.1.43 PCCPCH Power

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

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

9.2.1.44 Primary CPICH Power

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

9.2.1.45 Primary Scrambling Code

The Primary scrambling code to be used in the cell.

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

9.2.1.46 Puncture Limit

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

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

9.2.1.46A QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
QE-Selector			ENUMERATED(selected, non-selected)	

9.2.1.47 RANAP Relocation Information

This parameter is transparent to the RNSAP. The parameter contains information for the Relocation procedure as defined in [2].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RANAP Relocation Information			Bit String	The contents is defined in ref. [2].

9.2.1.48 Report Characteristics

The Report Characteristics, defines how the reporting shall be performed.

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

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

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

9.2.1.49 RL ID

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

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

9.2.1.50 RNC-Id

This is the identifier of one RNC in UTRAN.

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

9.2.1.51 SCH Time Slot

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SCH Time Slot			INTEGER(0..6)	

9.2.1.51A Scheduling Priority Indicator

Indicates the relative priority of the DSCH or USCH data frame. Used by the DRNC when scheduling DSCH or USCH traffic.

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

9.2.1.52 Service Area Identifier (SAI)

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

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

9.2.1.53 S-RNTI

S-RNTI identifies the UE in the SRNC.

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

9.2.1.54 Sync Case

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

Case 1) SCH and PCCPCH allocated in a single TS#k

Case 2) SCH allocated in two TS: TS#k and TS#k+8
PCCPCH allocated in TS#k

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Sync Case			INTEGER (1..2...) ENUMERATED (Case1, Case2)	

9.2.1.55 TFCI Presence

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

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

9.2.1.56 Time Slot

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

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

9.2.1.57 ToAWE

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

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

9.2.1.58 ToAWS

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

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

9.2.1.59 Transaction ID

The Transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same Transaction ID.

The Transaction ID is determined by the initiating peer of a procedure.

For procedures addressed to a specific UE context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures for the same UE using the same procedure code, and initiated by the same protocol peer.

For procedures not addressed to a specific UE context, the Transaction ID shall uniquely identify a procedure among all ongoing parallel procedures using the same procedure code, and initiated by the same protocol peer.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transaction ID			CHOICE INTEGER (0..127) or INTEGER (0..32767)	

9.2.1.60 Transport Bearer ID

The Transport Bearer ID uniquely identifies an Iur transport bearer.

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

9.2.1.61 Transport Bearer Request Indicator

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

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

9.2.1.62 Transport Layer Address

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

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

9.2.1.63 Transport Format Combination Set (TFCS)

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

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of

two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)]

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE DSCH				
>No split in TFCI				This choice is made if : a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>>>CTFC	M		INTEGER(0..MaxCTFC)	Integer number calculated according to ref. [16].
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>>Gain Factor β_C	M		Integer (0..15)	For UL DPCCCH or control part of PRACH in FDD ref. [21].
>>>>>Gain Factor β_D	M		Integer (0..15)	For UL DPDCH or data part of PRACH in FDD ref. [21].
>>>>>Reference TFC nr	O		Integer (0..15)	If this TFC is a reference TFC, this IE indicates the reference number
>>>>Computed Gain Factors				
>>>>>Reference TFC nr	M		Integer (0..15)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
>There is a split in the TFCI				This choice is made if : a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels
>>Transport format combination_DCH		1 to <MaxTFCI_1_Comb>		The first instance of the parameter <i>Transport format combination_DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	M		Integer(0..MaxCTFC)	Integer number calculated according to [16]. The calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling method				
>>>TFCI range				
>>>>TFC mapping on DSCH		1 to <MaxNoTFCIGroups>		
>>>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>>CTFC(field2)	M		Integer(0..M)	Integer number calculated

2)			axCTFC)	according to [16] The calculation of CTFC ignores any DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport format combination_DSC H		1 to <MaxTFCI_2_Co mbs>		The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>>CTFC(field 2)	M		Integer(0..M axCTFC)	Integer number calculated according to [16] . The calculation of CTFC ignores any DCH transport channels which may be assigned

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

Range bound	Explanation
<i>MaxnoofTFCs</i>	The maximum number of Transport Format Combinations.
MaxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies
<i>MaxCTFC</i>	Maximum number of the CTFC value is calculated according to the following: $\sum_{i=1}^I (L_i - 1)P_i$ with the notation according to ref. [16].

9.2.1.64 Transport Format Set

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
>Dynamic Transport Format Information		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..4095)	
>>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission Time Interval <i>dynamic</i>	C-TTIdynamic	1..<maxTTIcount>	Enumerated(10, 20, 40, 80,...)	
>Semi-static Transport Format Information				
>>Transmission Time Interval <i>semi-static</i>	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80,...) <i>dynamic</i>	msec <i>The value dynamic is only used in TDD mode.</i>
>>Type of Channel Coding	M		ENUMERATED (No coding, Convolutional, Turbo,...)	
>>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3,...)	
>>Rate Matching Attribute	M		INTEGER (1..maxRM)	
>>CRC size	M		ENUMERATED (0, 8, 12, 16, 24,...)	
>>CHOICE mode				
>>>TDD				
>>>>2 nd Interleaving Mode	M		Enumerated (Frame related, Timeslot related,...)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" or "Turbo"
TTIdynamic	This IE is mandatory if not defined as semistatic parameter. Otherwise it is absent.
TTIsemistatic	This IE is mandatory if not defined as dynamic parameter. Otherwise it is absent.

Range bound	Explanation
MaxTFcount	The maximum number of different transport formats that can be included in the Transport format set for one transport channel.
MaxRM	The maximum number that could be set as rate matching attribute for a transport channel.
MaxTTIcount	The amount of different TTI that are possible for that transport format is.

9.2.1.65 TrCh Source Statistics Descriptor

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

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

9.2.1.66 UARFCN

The UTRA Absolute Radio Frequency Channel Number defines the carrier.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UARFCN			INTEGER (0..16383, ...)	Corresponds to: 0.0Hz.. 3276.6MHz see ref. [6] and ref [7].

9.2.1.67 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL FP Mode			ENUMERATED (Normal, Silent, ...)	

9.2.1.68 UL Interference Level

The parameter indicates the UL Interference Level in a cell [FDD]/time slot[TDD]. The UL Interference Level is used by the UE to calculate its initial UL power for the cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Interference Level			ENUMERATED (-128..-60)	Unit: dBm, Step size=0.1 dB

9.2.1.69 Uplink SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink SIR			ENUMERATED (-8.2 .. 17.3)	Step 0.1 dB

9.2.1.70 URA ID

IE/Group Name	Presence	Range	IE type and reference	Semantics description
URA ID			INTEGER (0..65 535)	

9.2.1.70A UTRAN Access Point Position

The UTRAN Access Point Position indicates the exact geographical position of the base station antenna.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UTRAN Access Point Position				
>Latitude Sign	M		ENUMERATED (North, South)	
>Degrees of Latitude	M		INTEGER (0...2 ²³ -1)	The IE value (N) is derived by this formula: $N \leq 2^{23} X / 90 < N+1$ X being the latitude in degree (0°.. 90°)
>Degrees of Longitude	M		INTEGER (-2 ²³ ...2 ²³ -1)	The IE value (N) is derived by this formula: $N \leq 2^{24} X / 360 < N+1$ X being the longitude in degree (-180°..+180°)

9.2.1.71 UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UC-ID		1		
>RNC-Id	M		RNC-ID INTEGER (0...4095)	
>C-Id	M		C-ID	

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;

-- A

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

```

```

}

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

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

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

AllocationRetentionPriority ::= FrameHandlingPriority

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

-- B

BetaCD ::= INTEGER (0..15)

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

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

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

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

-- C

Cause ::= CHOICE {

```

```
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    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,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    ...
}
```

```

}

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

CCTrCH-ID          ::= INTEGER (0..15)

CellIndividualOffset ::= INTEGER (-20..20)

| CellParameterID   ::= INTEGER (0..127, ...)

CFN                ::= INTEGER (0..255)

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 ::= {
    ...
}

```



```

}

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

-- 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
}

DiversityMode         ::= ENUMERATED {
    none,
    sTTD,
    closedLoopMode1,
    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)

-- E

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

```

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

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

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

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

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

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

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

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

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

```

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

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

-- F

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

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

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

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

-- G

GapLength                    ::= INTEGER (1..14)

GapDuration                  ::= INTEGER (1..144)
```

```

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 ::= {
  ...
}

-- H

-- 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

```

```
-- J
-- K
-- L
```

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

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

```
L3-Information ::= BIT STRING
```

```
-- 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)
-- Units 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)

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

-- N

NrOfDLchannelisationcodes ::= INTEGER (1..8)

```

```

NrOfTransportBlocks ::= INTEGER (0..4095)

-- O

-- P

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}

| PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PDSCHCodeMapping ::= SEQUENCE {
    dL-ScramblingCode          DL-ScramblingCode,
    signallingMethod          PDSCHCodeMapping-SignallingMethod,
    iE-Extensions             ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs} } OPTIONAL,
    ...
}

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

PDSCHCodeMapping-SignallingMethod ::= CHOICE {
    pDSCHCodeMapping-SignallingMethod-CodeRange          PDSCHCodeMapping-SignallingMethod-CodeRange,
    pDSCHCodeMapping-SignallingMethod-TFCIRange         PDSCHCodeMapping-SignallingMethod-TFCIRange,
    pDSCHCodeMapping-SignallingMethod-Explicit          PDSCHCodeMapping-SignallingMethod-Explicit
}

PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEQUENCE (SIZE (1..maxNoCodeGroups)) OF
SEQUENCE {
    spreadingFactor          SpreadingFactor,
    multi-code-info          Multi-code-info,
    start-CodeNumber         CodeNumber,
    stop-CodeNumber          CodeNumber,
    ...
}

PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
SEQUENCE {
    maxTFCIvalue             MaxTFCIvalue,
    spreadingFactor          SpreadingFactor,
    multi-code-info          Multi-code-info,
    codeNumber               CodeNumber,
    ...
}

```



```

PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor          SpreadingFactor,
    multi-code-info         Multi-code-info,
    codeNumber              CodeNumber,
    ...
}

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

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

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

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

PowerOffset ::= INTEGER (0..24)

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PRACH-MinimumSpreadingFactor ::= ENUMERATED {
    v32,
    v64,
    v128,
    v256,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 See ref. [21] --

PrimaryCPICH-Power ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryCPICH-EcNo ::= INTEGER (-30..30)

```

```

PrimaryCCPCH-RSCP          ::= INTEGER (0..91)
-- According to maping in [14]

PrimaryScramblingCode      ::= INTEGER (0..511)

PropagationDelay           ::= INTEGER (0..255)

SyncCase ::= INTEGER (1..2,...)ENUMERATED {
  case1,
  case2
}

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

-- Q

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

-- R

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

RACH-SubChannelNumbers    ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, ..., Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute     ::= INTEGER (1..maxRateMatching)

RB-Identity               ::= INTEGER (0..15)

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength         ::= INTEGER (1..63)

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

RepetitionNumber ::= INTEGER (0..255)

```

```

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

ReportPeriodicity ::= CHOICE {
    | ten-msec          INTEGER (1..6000, ...),
    -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
    -- E.g. value 6000 means 60000ms (i.e. 1min)
    -- Unit ms, Step 10ms
    | min              INTEGER (1..60, ...)
    -- Unit min, Step 1min
}

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

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

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

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

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)

Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [14]

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

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- S

SAC                  ::= OCTET STRING (SIZE (2))

SAI ::= SEQUENCE {
    pLMN-ID           PLMN-ID,

```

```
    LAC                LAC,
    sAC                SAC,
    iE-Extensions      ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
}

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

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

ScramblingCodeNumber ::= INTEGER (0..15)

SIR-Error-Value       ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value             ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SecondaryCCPCH-SlotFormat ::= INTEGER (0..17)
-- refer to 25.211

SN                    ::= TimeSlot

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

SpreadingFactor       ::= INTEGER (4| 8| 16| 32| 64| 128| 256)

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

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

SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
```

```
    long
  }

SSDT-Indication ::= ENUMERATED {
    sSDT-active-in-the-UE,
    sSDT-not-active-in-the-UE
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-supported,
    sSDT-not-supported
}

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

STTD-SupportIndicator ::= ENUMERATED {
    sTTD-Supported,
    sTTD-not-Supported
}

-- T

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

```
    chCode16div11,  
    chCode16div12,  
    chCode16div13,  
    chCode16div14,  
    chCode16div15,  
    chCode16div16,  
    ...  
}  
  
TDD-PhysicalChannelOffset ::= INTEGER (0..63)  
  
TDD-TPC-DownlinkStepSize ::= ENUMERATED {  
    step-size1,  
    step-size2,  
    step-size3,  
    ...  
}  
  
TFCI-Coding ::= ENUMERATED {  
    v4,  
    v8,  
    v16,  
    v32  
}  
  
TFCI-Presence ::= ENUMERATED {  
    present,  
    not-present  
}  
  
TFCI-SignallingMode ::= ENUMERATED {  
    normal,  
    split  
}  
  
TGD ::= INTEGER (0|15..269)  
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence  
  
TGPRC ::= INTEGER (0..63)  
-- 0 = infinity  
  
TGPSI ::= 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 {
    tGPSI          TGPSI,
    tGSN          TGSN,
    tGL1          GapLength,
    tGL2          GapLength OPTIONAL,
    tGD          TGD,
    tGPL1          GapDuration,
    tGPL2          GapDuration OPTIONAL,
    rPM          RPM,
    iTPPRM        ITPPRM,
    uL-DL-mode    UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method Uplink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType DL-FrameType,
    delta-SIR1    DeltaSIR,
    delta-SIR-after1 DeltaSIR,
    delta-SIR2    DeltaSIR OPTIONAL,
    delta-SIR-after2 DeltaSIR OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}
```

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

```
...
}
```

Transmission-Gap-Pattern-Sequence-Information-Response ::= ENUMERATED{

```
code-change,
nocode-change
}
```

| TransmissionTimeInterval-~~DP~~ ::= ENUMERATED {

```
msec-10,
msec-20,
msec-40,
msec-80,
```

```

...
}
TransmissionTimeInterval-SP ::= ENUMERATED {
  msec-10,
  msec-20,
  msec-40,
  msec-80,
  dynamic
}
TransmitDiversityIndicator ::= ENUMERATED {
  active,
  inactive
}
TransportBearerID ::= INTEGER (0..4095)
TransportBearerRequestIndicator ::= ENUMERATED {
  bearer-requested,
  bearer-not-requested
}
TransportBlockSize ::= INTEGER (0..5000)
-- Unit is bits
TransportFormatCombination-Beta ::= CHOICE {
  signalledGainFactors SEQUENCE {
    betaC BetaCD,
    betaD BetaCD,
    refTFCNumber RefTFCNumber OPTIONAL
  },
  refTFCNumber RefTFCNumber
}
TFCS ::= SEQUENCE {
  tFCSvalues CHOICE {
    no-Split-in-TFCI TFCS-TFCSList,
    split-in-TFCI SEQUENCE {
      transportFormatCombination-DCH TFCS-DCHList,
      signallingMethod CHOICE {
        tFCI-Range TFCS-MappingOnDSCHList,
        explicit TFCS-DSCHList
      }
    }
  },
  IE-Extensions ProtocolExtensionContainer { { TFCS-ExtIEs } } OPTIONAL,
  ...
}
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```



```

}
...
}
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
  SEQUENCE {
    cTFC                TFCS-CTFC,
    tFC-Beta            TransportFormatCombination-Beta    OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }    OPTIONAL,
    ...
  }
TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TFCS-CTFC ::= INTEGER (0..maxCTFC)
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
  SEQUENCE {
    cTFC                TFCS-CTFC,
    iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }    OPTIONAL,
    ...
  }
TFCS-DCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value    TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH              TFCS-CTFC,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs } }    OPTIONAL,
    ...
  }
TFCS-MappingOnDSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH              TFCS-CTFC,
    iE-Extensions          ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs } }    OPTIONAL,
    ...
  }
TFCS-DSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

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

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

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

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

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

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

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

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

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

TransportFormatManagement ::= ENUMERATED {

```

```

    cell-based,
    ue-based,
    ...
}

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

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

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

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

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

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

TxDiversityIndicator      ::= ENUMERATED {
    true,
    false
}

-- U

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

```

```

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

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

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

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

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

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

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.

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

```

```
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
UL-ScramblingCodeLength ::= ENUMERATED {  
    short,  
    long  
}  
  
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)  
  
URA-ID ::= INTEGER (0..65535)  
  
USCH-ID ::= INTEGER (0..255)  
  
-- V  
-- W  
-- X  
-- Y  
-- Z  
  
END
```


9.2.2.8 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Mode			ENUMERATED(None, STTD, Closed loop mode 1, Closed loop mode2,...)	

9.2.2.9 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH Slot Format			INTEGER (0..16,...)	

9.2.2.16 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink Step Size			ENUMERATED (0.5, 1, 1.5, 2, ...)	

9.2.2.19 Gap Starting Slot Number (SN)

~~It defines the slot number when the transmission gap starts.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SN			Time Slot	

Void.

9.2.2.24A Min DL Channelisation Code Length

~~Minimum DL channelisation code length (spreading factor) of a supported by the UE on the PDSCH.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min DL Channelisation Code Length			ENUMERATED(4,8,16,32,64,128,256)	

Void.

9.2.2.27 Pattern Duration (PD)

Pattern duration is the total time of the compressed mode pattern (all consecutive TGPs) expressed in number of frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(0..2047, ...)	Frames If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite'

Void.

9.2.2.31A Preamble Signatures

This IE gives the preamble signatures allowed for a PRACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1 .. Bit 15=P15 See ref. [21].

9.2.2.36 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SS DT Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERATED (1, 2,...)	

9.2.2.38 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER (0..17 _{..})	See ref. [8].

9.2.2.39 Slot Number (SN)

It defines the slot number when the transmission gap starts.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SN			Time Slot	

Void.

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
Transmission gap pattern sequence Information		1 to <MaxTGPS>		
>TGPSI	M		Integer(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		Integer (0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		Integer(1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots
>TGL2	O		Integer (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		Integer (0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		Integer (1..144,...)	The duration of transmission gap pattern 1.
>TGPL2	O		Integer (1..144,...)	The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.
>RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied
>ITPPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
>UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink compressed mode method	C-DL		Enumerated (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 (0..30)	Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) Step 0.1
DeltaSIRafter1	M		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern,. Step 0.1
DeltaSIR2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1. Step 0.1
DeltaSIRafter2	O		Integer (0..30)	Delta in DL SIR target value to be set in the UE one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

9.2.2.52 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH Slot Format			INTEGER (0..5,...	

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;

-- A

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

```

}

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

...

}

~~AdjustmentPeriod ::= INTEGER(1..300)~~~~-- Unit Frame~~~~Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF~~~~SEQUENCE {~~~~tGPSI TCPSI,~~~~tGPRC TPCRC,~~~~tGCFN CFN,~~~~iE-Extensions ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,~~~~...~~~~}~~~~Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {~~~~...~~~~}~~

AllocationRetentionPriority ::= FrameHandlingPriority

AllowedQueuingTime ::= INTEGER (0..60)

-- seconds

-- B

BetaCD ::= INTEGER (0..15)

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

BLER ::= INTEGER (-63..0)

-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER

Block-STTD-Indicator ::= ENUMERATED {

active,

inactive

}

BurstType ::= ENUMERATED {

type1 (1),

type2 (2)

}

```
-- C

Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    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,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
```

```
    transmission-port-not-available,  
    unspecified,  
    ...  
}  
  
C-ID ::= INTEGER (0..65535)  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CellIndividualOffset ::= INTEGER (-20..20)  
  
CellParameterID ::= INTEGER (0..127)  
  
CFN ::= INTEGER (0..255)  
  
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 ::= {
  ...
}

```

```

}

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

-- 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
}

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closedLoopMode1,
    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)

-- E

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

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

-- F

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

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

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

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

-- G

GapLength                   ::= INTEGER (1..14)

```

```

GapDuration ::= INTEGER (1..144)
...

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 ::= {
  ...
}

-- H

-- 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

-- J
-- K
-- L

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

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

L3-Information ::= BIT STRING

-- 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)

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}
```



```

-- N

NrOfDLchannelisationcodes ::= INTEGER (1..8)

NrOfTransportBlocks ::= INTEGER (0..4095)

-- O

-- P

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}

PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PDSCHCodeMapping ::= SEQUENCE {
    dL-ScramblingCode DL-ScramblingCode,
    signallingMethod PDSCHCodeMapping-SignallingMethod,
    iE-Extensions ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs} } OPTIONAL,
    ...
}

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

PDSCHCodeMapping-SignallingMethod ::= CHOICE {
    pDSCHCodeMapping-SignallingMethod-CodeRange PDSCHCodeMapping-SignallingMethod-CodeRange,
    pDSCHCodeMapping-SignallingMethod-TFCIRange PDSCHCodeMapping-SignallingMethod-TFCIRange,
    pDSCHCodeMapping-SignallingMethod-Explicit PDSCHCodeMapping-SignallingMethod-Explicit
}

PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEQUENCE (SIZE (1..maxNoCodeGroups)) OF
SEQUENCE {
    spreadingFactor SpreadingFactor,
    multi-code-info Multi-code-info,
    start-CodeNumber CodeNumber,
    stop-CodeNumber CodeNumber,
    ...
}

PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
SEQUENCE {
    maxTFCIvalue MaxTFCIvalue,
    spreadingFactor SpreadingFactor,

```

```

        multi-code-info      Multi-code-info,
        codeNumber           CodeNumber,
        ...
    }

PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor           SpreadingFactor,
    multi-code-info          Multi-code-info,
    codeNumber               CodeNumber,
    ...
}

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

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

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

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

PowerOffset ::= INTEGER (0..24)

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PRACH-MinimumSpreadingFactor ::= ENUMERATED {
    v32,
    v64,
    v128,
    v256,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 See ref. [21] --

PrimaryCPICH-Power ::= INTEGER (-100..500)

```

```
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryCPICH-EcNo          ::= INTEGER (-30..30)

PrimaryCCPCH-RSCP          ::= INTEGER (0..91)
-- According to maping in [14]

PrimaryScramblingCode      ::= INTEGER (0..511)

PropagationDelay           ::= INTEGER (0..255)

SyncCase ::= ENUMERATED {
  case1,
  case2
}

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

-- Q

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

-- R

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

RACH-SubChannelNumbers    ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, ..., Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute     ::= INTEGER (1..maxRateMatching)

RB-Identity               ::= INTEGER (0..15)

RefTFCNumber              ::= INTEGER (0..15)

RepetitionLength         ::= INTEGER (1..63)

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

```
}

RepetitionNumber ::= INTEGER (0..255)

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

ReportPeriodicity ::= CHOICE {
    ten-msec          INTEGER (1..6000),
    -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
    -- E.g. value 6000 means 60000ms (i.e. 1min)
    -- Unit ms, Step 10ms
    min               INTEGER (1..60)
    -- Unit min, Step 1min
}

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

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

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

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

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)

Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [14]

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

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- S
```

```

SAC ::= OCTET STRING (SIZE (2))

SAI ::= SEQUENCE {
    pLMN-ID          PLMN-ID,
    lAC              LAC,
    sAC              SAC,
    iE-Extensions   ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
}

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

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

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

ScramblingCodeNumber ::= INTEGER (0..15)

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

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SecondaryCCPCH-SlotFormat ::= INTEGER (0..17),
...
-- refer to 25.211

SN ::= TimeSlot

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

SpreadingFactor ::= INTEGER (4 | 8 | 16 | 32 | 64 | 128 | 256)

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

```

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

```
SSDT-CellID-Length ::= ENUMERATED {  
    short,  
    medium,  
    long  
}
```

```
SSDT-Indication ::= ENUMERATED {  
    sSDT-active-in-the-UE,  
    sSDT-not-active-in-the-UE  
}
```

```
SSDT-SupportIndicator ::= ENUMERATED {  
    sSDT-supported,  
    sSDT-not-supported  
}
```

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

```
STTD-SupportIndicator ::= ENUMERATED {  
    sTTD-Supported,  
    sTTD-not-Supported  
}
```

```
SyncCase ::= ENUMERATED {  
    case1,  
    case2  
}
```

```
-- 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

TGPSI ::= 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 {
    tGPSI          TGPSI,
    tGSN          TGSN,
    tGL1          GapLength,
    tGL2          GapLength  OPTIONAL,
    tGD          TGD,
    tGPL1         GapDuration,
    tGPL2         GapDuration OPTIONAL,
    rPM          RPM,
    iTPPRM        ITPPRM,
    uL-DL-mode    UL-DL-mode,
    downlink-Compressed-Mode-Method    Downlink-Compressed-Mode-Method    OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method      Uplink-Compressed-Mode-Method      OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType    DL-FrameType,
    delta-SIR1      DeltaSIR,
    delta-SIR-after1  DeltaSIR,
    delta-SIR2      DeltaSIR  OPTIONAL,
    delta-SIR-after2  DeltaSIR  OPTIONAL,

```



```

        iE-Extensions          ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
        ...
    }

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

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

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

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

TransmissionTimeInterval ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80
}

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

TransportBearerID          ::= INTEGER (0..4095)

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

```

```

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

```

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

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

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

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

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

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

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

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

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

TransportFormatSet-ModeSSP ::= CHOICE {
```

```

    tdd                SecondInterleavingMode,
    notApplicable      NULL,
    ...
}

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

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

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

TxDiversityIndicator ::= ENUMERATED {
  true,
  false
}

-- U

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

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

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

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

UC-ID ::= SEQUENCE {

```

```

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

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

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

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

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.

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

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

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

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

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

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

-- V
-- W
-- X
-- Y
-- Z

END

```


9.2.3 TDD Specific Parameters

This subclause contains parameters that are specific to TDD.

9.2.3.A Block STTD Indicator

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

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

9.2.3.1 Void

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

This information element indicates burst type and midamble allocation.

Three different midamble allocation schemes exist:

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

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

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Burst Type				
>Type 1				
>>Midamble Allocation Mode	M		Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift	C-UE		Integer(0..15)	
>Type 2				
>>Midamble Allocation Mode	M		Enumerated (Default midamble, Common midamble, UE specific midamble)	
>>Midamble Shift	C-UE		INTEGER (0..5)	
>Type 3				UL only
>>Midamble Allocation Mode	M		Enumerated (Default midamble, UE specific midamble)	
>>Midamble Shift	C-UE		Integer(0..15)	
>...				

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

9.2.3.5 Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. [14].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CCPCH RSCP			INTEGER (0..91)	According to mapping in in ref. [14].

9.2.3.5A PRACH Midamble

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Midamble			ENUMERATED (Inverted, Direct)	

9.2.3.5B RB Identity

The RB Identity is the identifier of a radio bearer. It is unique for each active Radio bearer among the active radio bearers simultaneously allocated for the same UE.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RB Identity			INTEGER (0..31)	In line with [16], ch. 10.3.4.11

9.2.3.6 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Length			INTEGER(1..63)	

9.2.3.7 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot K is assigned to a physical channel in the Radio Frame J , it is assigned to the same physical channel also in all the Radio Frames $J+n*Repetition\ Period$ (where n is an integer).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Repetition Period			ENUMERATED (1,2,4,8,16,32,64)	

9.2.3.8 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1),... (4/4), (8/1), (8/8), (16/1)... (16/16), ...)	

9.2.3.9 TDD Physical Channel Offset

The TDD Physical Channel Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = TDD Physical Channel Offset).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD Physical Channel Offset			INTEGER (0..63)	

9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TDD TPC Downlink step size			ENUMERATED (1, 2, 3,...)	

9.2.3.11 TFCI Coding

The TFCI Coding describes how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Coding	M		Enumerated (4, 8, 16, 32,...)	

9.2.3.12 Timeslot ISCP

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
Timeslot ISCP			INTEGER (0..91)	According to mapping in [14].

9.2.3.13 Transport Format Management

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

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

9.2.3.14 USCH ID

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

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

9.3.4 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 {
        tGPSI          TGPSI,
        tGPRC          TGPRC,
        tGCFN          CFN,
        iE-Extensions          ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-
List-ExtIEs } } OPTIONAL,
        ...
    }

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

```

```

AllocationRetentionPriority ::= FrameHandlingPriority

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

-- B

BetaCD ::= INTEGER (0..15)

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

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

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

-- 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,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    ...
}

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

```

```

CCTrCH-ID ::= INTEGER (0..15)

CellIndividualOffset ::= INTEGER (-20..20)

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

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 ::= {
    ...
}

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

-- 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
}

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,
    ...
}

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)

-- E

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

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

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

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

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

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

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

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

```

```

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

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

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

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

-- F

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

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

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

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

-- G

GapLength                     ::= INTEGER (1..14)

GapDuration                   ::= INTEGER (1..144)

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 ::= {
    ...
}

-- H

-- 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

-- J
-- K
-- L

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

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

L3-Information ::= BIT STRING

-- 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,
    ...
}

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
  }
-- N
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks      ::= INTEGER (0..4095)
-- O
-- P
PayloadCRC-PresenceIndicator ::= ENUMERATED {
  crc-included,
  crc-not-included
}
PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm
PDSCHCodeMapping ::= SEQUENCE {
  dL-ScramblingCode      DL-ScramblingCode,
  signallingMethod       PDSCHCodeMapping-SignallingMethod,
  iE-Extensions          ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs } } OPTIONAL,
  ...
}
PDSCHCodeMapping-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
PDSCHCodeMapping-SignallingMethod ::= CHOICE {
  pDSCHCodeMapping-SignallingMethod-CodeRange      PDSCHCodeMapping-SignallingMethod-CodeRange,
  pDSCHCodeMapping-SignallingMethod-TFCIRange       PDSCHCodeMapping-SignallingMethod-TFCIRange,
  pDSCHCodeMapping-SignallingMethod-Explicit        PDSCHCodeMapping-SignallingMethod-Explicit
}
PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEQUENCE (SIZE (1..maxNoCodeGroups)) OF
SEQUENCE {
  spreadingFactor      SpreadingFactor,
  multi-code-info      Multi-code-info,
  start-CodeNumber     CodeNumber,
  stop-CodeNumber      CodeNumber,
  ...
}
PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
SEQUENCE {
  maxTFCIvalue      MaxTFCIvalue,
  spreadingFactor    SpreadingFactor,
  multi-code-info    Multi-code-info,
  codeNumber         CodeNumber,
  ...
}
PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
SEQUENCE {
  spreadingFactor      SpreadingFactor,
  multi-code-info      Multi-code-info,
  codeNumber           CodeNumber,
  ...
}
Periodic ::= SEQUENCE {
  reportPeriodicity      ReportPeriodicity,
  iE-Extensions          ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
  ...
}
Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
PLMN-ID ::= OCTET STRING (SIZE(3))

```

```

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

PowerOffset          ::= INTEGER (0..24)

PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PRACH-MinimumSpreadingFactor ::= ENUMERATED {
    v32,
    v64,
    v128,
    v256,
    ...
}

PreambleSignatures ::= BIT STRING (SIZE (16))
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 See ref. [21] --

PrimaryCPICH-Power ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryCPICH-EcNo ::= INTEGER (-30..30)

PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- According to maping in [14]

PrimaryScramblingCode ::= INTEGER (0..511)

PropagationDelay ::= INTEGER (0..255)

SyncCase ::= ENUMERATED {
    case1,
    case2
}

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

-- Q

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

-- R

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

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .. , Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

RB-Identity ::= INTEGER (0..1531)

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength ::= INTEGER (1..63)

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

```

```

}

RepetitionNumber ::= INTEGER (0..255)

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

ReportPeriodicity ::= CHOICE {
    ten-msec          INTEGER (1..6000),
    -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
    -- E.g. value 6000 means 60000ms (i.e. 1min)
    -- Unit ms, Step 10ms
    min               INTEGER (1..60)
    -- Unit min, Step 1min
}

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

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

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

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

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)

Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [14]

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

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- S

SAC                  ::= OCTET STRING (SIZE (2))

SAI ::= SEQUENCE {
    pLMN-ID           PLMN-ID,
    lAC               LAC,
    sAC               SAC,
    iE-Extensions     ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL
}

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

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

ScramblingCodeNumber ::= INTEGER (0..15)

SIR-Error-Value      ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value             ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SecondaryCCPCH-SlotFormat ::= INTEGER (0..17)

```

```

-- refer to 25.211

SN ::= TimeSlot

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

SpreadingFactor ::= INTEGER (4| 8| 16| 32| 64| 128| 256)

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

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

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

SSDT-Indication ::= ENUMERATED {
    sSDT-active-in-the-UE,
    sSDT-not-active-in-the-UE
}

SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-supported,
    sSDT-not-supported
}

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

STTD-SupportIndicator ::= ENUMERATED {
    sTTD-Supported,
    sTTD-not-Supported
}

-- T

TDD-ChannelisationCode ::= ENUMERATED {
    chCode1div1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
    chCode8div1,
    chCode8div2,
    chCode8div3,
    chCode8div4,
    chCode8div5,
    chCode8div6,
    chCode8div7,
    chCode8div8,
    chCode16div1,
    chCode16div2,
    chCode16div3,
    chCode16div4,
    chCode16div5,
    chCode16div6,
    chCode16div7,
    chCode16div8,
    chCode16div9,
}

```



```

    chCode16div10,
    chCode16div11,
    chCode16div12,
    chCode16div13,
    chCode16div14,
    chCode16div15,
    chCode16div16,
    ...
}

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

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

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

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

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

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

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

TGPSI ::= 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 {
        tGPSI          TGPSI,
        tGSN           TGSN,
        tGL1           GapLength,
        tGL2           GapLength OPTIONAL,
        tGD            TGD,
        tGPL1          GapDuration,
        tGPL2          GapDuration OPTIONAL,
        rPM            RPM,
        iTPPRM         ITPPRM,
        uL-DL-mode     UL-DL-mode,
        downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
        -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
        uplink-Compressed-Mode-Method   Uplink-Compressed-Mode-Method   OPTIONAL,
    }

```

```

    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType          DL-FrameType,
    delta-SIR1            DeltaSIR,
    delta-SIR-after1     DeltaSIR,
    delta-SIR2            DeltaSIR    OPTIONAL,
    delta-SIR-after2     DeltaSIR    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-
Information-ExtIEs} } OPTIONAL,
    ...
}

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

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

TransmissionTimeInterval ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80
}

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

TransportBearerID ::= INTEGER (0..4095)

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

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

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

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

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

TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
SEQUENCE {
    cTFC          TFCS-CTFC,

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

```

    notApplicable      NULL,
    ...
}

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

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

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

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

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

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

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

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

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

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

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

TxDiversityIndicator      ::= ENUMERATED {
    true,
    false
}

-- U

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

UL-DL-mode ::= ENUMERATED {
    ul-only,

```

```

    dl-only,
    both-ul-and-dl
}

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

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

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

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

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

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

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.

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

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

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

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

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

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

-- V
-- W
-- X
-- Y
-- Z

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 199

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 Unknown Procedure ID

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 chapter 10 of version 3.2.0 of RNSAP specification the error handling on procedure level is based on the *Procedure Code*. However, the procedure code does not uniquely define a procedure. A procedure in RNSAP is uniquely defined by its *Procedure ID*. The *Procedure ID* consists of the *Procedure Code* and the *DDMode*. This means that in the current handling a receiving node supporting *Procedure Code X* for one mode also have to support the procedure for the other mode. For example, this means that a single mode nodes supporting only TDD have to support the same procedure for the FDD.

This CR changes the handling in chapter 10 to be based on the *Procedure ID* rather than the *Procedure Code* in order to avoid the above-described problem.

Consequences if this CR is not accepted:

FDD only nodes will have to support all the TDD procedures corresponding to the ones intended to support for FDD. TDD only nodes will have to support all the FDD procedures corresponding to the ones intended to support for TDD.

Clauses affected:

9.2.1.13, 9.3.4, and 10.3.4.

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:

9.2.1.13 Criticality Diagnostics

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

Range bound	Explanation
maxnooferrors	Maximum number. of IE errors allowed to be reported with a single message.

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,
    ProcedureCodeID,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes

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

-- A

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

```



```
}

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

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

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

AllocationRetentionPriority ::= FrameHandlingPriority

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

-- B

BetaCD ::= INTEGER (0..15)

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

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

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

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

-- C

Cause ::= CHOICE {
```

```
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    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,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    ...
}
```

```
}  
  
C-ID ::= INTEGER (0..65535)  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CellIndividualOffset ::= INTEGER (-20..20)  
  
CellParameterID ::= INTEGER (0..127)  
  
CFN ::= INTEGER (0..255)  
  
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 {
  procedureCodeID          ProcedureCodeID          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 ::= {
  ...
}

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

```

•
•
•

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

•
•
•

10.3.4 Not Comprehended IE/IE group

10.3.4.1 Procedure Code-ID

The receiving node shall treat the different types of received criticality information of the *Procedure Code-ID* according to the following:

Reject IE:

- if a message is received with a *Procedure Code-ID* marked with "Reject IE" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:

- if a message is received with a *Procedure Code-ID* marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:

- if a message is received with a *Procedure Code-ID* marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

10.3.4.2 IEs other than the Procedure Code-ID

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code-ID* according to the following:

Reject IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "Reject IE" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "Reject IE" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- if a *response* message is received containing one or more IEs/IE groups marked with "Reject IE", that the receiving node does not comprehend, the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- if a *response* message is received containing one or more IEs/IE groups marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and initiate the Error Indication procedure.

Ignore IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

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 200r1

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:

WG3

Date:

Sept 20, 2000

Subject:

Combined ASN.1 definition based on agreed CRs

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 is provided to help the maintenance of RNSAP ASN.1. It combines the ASN.1 definitions from all agreed CRs from R3#14, with all errors corrected and with some editorial unification.

Clauses affected:

9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6 and 9.3.7

Other specs affected:

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

Other comments:

9.3.2 Elementary Procedure Definitions

```
-- *****
--
-- Elementary Procedure definitions
--
-- *****

-- R3-001916,CR167
RNSAP-PDU-Descriptions --- { object identifier to be allocated }---
RNSAP-PDU-Descriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Descriptions (0) }

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,
-- R3-002340,CR192r1
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,  
  
-- R3-002340,CR192r1  
id-uplinkSignallingTransferFDD,  
id-uplinkSignallingTransferTDD  
FROM RNSAP-Constants;  
  
-- *****  
--  
-- Interface Elementary Procedure Class  
--  
-- *****  
  
RNSAP-ELEMENTARY-PROCEDURE ::= CLASS {  
    &InitiatingMessage  
    &SuccessfulOutcome          OPTIONAL,  
    &UnsuccessfulOutcome      OPTIONAL,  
    &Outcome                    OPTIONAL,  
    &procedureID               ProcedureID    UNIQUE,  
    &criticality                Criticality    DEFAULT ignore  
}  
WITH SYNTAX {  
    INITIATING MESSAGE      &InitiatingMessage  
    [SUCCESSFUL OUTCOME    &SuccessfulOutcome]  
    [UNSUCCESSFUL OUTCOME  &UnsuccessfulOutcome]  
    [OUTCOME                &Outcome]  
    PROCEDURE ID           &procedureID  
    [CRITICALITY           &criticality]  
}  
  
-- *****  
--  
-- Interface PDU Definition  
--  
-- *****  
  
RNSAP-PDU ::= CHOICE {  
    initiatingMessage      InitiatingMessage,  
    succesfulOutcome       SuccessfulOutcome,  
    unsuccessfulOutcome    UnsuccessfulOutcome,  
    outcome                Outcome,  
    ...  
}
```

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

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

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

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

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

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

RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= {
  radioLinkSetupFDD |
  radioLinkSetupTDD |
  radioLinkAdditionFDD |
  radioLinkAdditionTDD |
  radioLinkDeletion |
  synchronisedRadioLinkReconfigurationPreparationFDD |
  synchronisedRadioLinkReconfigurationPreparationTDD |
  unSynchronisedRadioLinkReconfigurationFDD |
  unSynchronisedRadioLinkReconfigurationTDD |
}
```

```
physicalChannelReconfigurationFDD
physicalChannelReconfigurationTDD
measurementInitiation
commonTransportChannelResourcesInitiationFDD
commonTransportChannelResourcesInitiationTDD
...
}

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

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

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

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

radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
INITIATING MESSAGE RadioLinkSetupRequestTDD
SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
UNSUCCESSFUL OUTCOME RadioLinkSetupFailureTDD
}
```

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```
PROCEDURE ID      { procedureCode id-radioLinkSetup, ddMode tdd }
CRITICALITY      reject
}

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

radioLinkAdditionTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkAdditionRequestTDD
  SUCCESSFUL OUTCOME  RadioLinkAdditionResponseTDD
  UNSUCCESSFUL OUTCOME  RadioLinkAdditionFailureTDD
  PROCEDURE ID        { procedureCode id-radioLinkAddition , ddMode tdd }
  CRITICALITY        reject
}

radioLinkDeletion RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkDeletionRequest
  SUCCESSFUL OUTCOME  RadioLinkDeletionResponse
  PROCEDURE ID        { procedureCode id-radioLinkDeletion, ddMode common }
  CRITICALITY        reject
}

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

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

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

Error! No text of specified style in document. Error! No text of specified style in document.

```
unSynchronisedRadioLinkReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationRequestTDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  PROCEDURE ID        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
  CRITICALITY         reject
}

physicalChannelReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  PhysicalChannelReconfigurationRequestFDD
  SUCCESSFUL OUTCOME  PhysicalChannelReconfigurationCommand
  UNSUCCESSFUL OUTCOME  PhysicalChannelReconfigurationFailure
  PROCEDURE ID        { procedureCode id-physicalChannelReconfiguration, ddMode fdd }
  CRITICALITY         reject
}

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

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

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

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

uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  UplinkSignallingTransferIndicationFDD
```

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```
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
}
```

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

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

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

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

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

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


9.3.3 PDU Definitions

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

-- R3-001916,CR167
RNSAP-PDU-Contents { object identifier to be allocated }
RNSAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
-- R3-002229,CR169r2
BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    ClosedloopTimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
-- R3-001901,CR160r1
D-FieldLength,
    D-RNTI,
```

```
D-RNTI-ReleaseIndication,  
DCH-ID,  
DL-DPCH-SlotFormat,  
-- R3-002084,CR174  
DL-TimeslotISCP,  
-- R3-001906,CR153r1  
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,  
-- R3-002084,CR174  
ISCP,  
L3-Information,  
LimitedPowerIncrease,  
MAC-c-sh-SDU-Length,  
MaximumAllowedULTxPower,  
-- R3-001909,CR148r1  
MaxNrDLPhysicalchannels,  
MaxNrOfUL-DPCHs,  
-- R3-001909,CR148r1  
MaxNrTimeslots,  
MaxNrULPhysicalchannels,  
MeasurementFilterCoefficient,  
MeasurementID,  
-- R3-002229,CR169r2  
MidambleShiftMidambleShiftAndBurstType,  
MinimumSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultipleURAsIndicator,  
MultiplexingPosition,
```

NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,
RANAP-RelocationInformation,
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,

-- R3-001976,CR164r2

RSSI,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,

-- R3-002210,CR149r2

TDD-DPCHOffset,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,

```
TFCI-SignallingMode,
TimeSlot,
-- R3-002077,CR146r3
TimingAdjustmentRequired,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
-- R3-001976,CR164r2
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
-- R3-001976,CR164r2
UL-TimeslotISCP,
URA-ID,
USCH-ID
FROM RNSAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
-- R3-002280,CR189r1
ProtocolIE-Single-Container{}},
RNSAP-PRIVATE-IES,
RNSAP-PROTOCOL-EXTENSION,
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

maxNoOfDSCHs,
maxNoOfRB,
maxNoOfUSCHs,
maxNrOfCCTrCHs,
maxNrOfDCHs,
-- R3-002210,CR149r2
```

```
maxNrOfTS,  
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,  
  
-- R3-002340,CR192r1  
id-ClosedLoopMode1-SupportIndicator,  
id-ClosedLoopMode2-SupportIndicator,  
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,
-- R3-001909,CR148r1
id-DL-Physical-Channel-Information-RL-SetupRqstTDD,
-- R3-001906,CR153r1
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,
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD,
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD,
id-DSCH-Information-RL-SetupRqstFDD,
id-DSCH-ModifyList-RL-ReconfPrepTDD,
id-DSCH-Modify-RL-ReconfPrepFDD,
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD,
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
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,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RLItem-DM-Rprt,
id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-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,  
-- R3-002340,CR192r1  
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-S-RNTI,  
id-SAI,  
id-SRNC-ID,  
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,  
-- R3-002340,CR192r1  
id-STTD-SupportIndicator,  
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,
-- R3-001909,CR148r1
id-UL-Physical-Channel-Information-RL-SetupRqstTDD,
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
--
-- *****

```

```

-- R3-002210,CR149r2
DPCH-IE-ContainerList { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IEsSetParam } }
RL-IE-ContainerList0 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1-1 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-1 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-2 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IEsSetParam } }
RL-Set-IE-ContainerList { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IEsSetParam } }
CCTrCH-IE-ContainerList0 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IEsSetParam } }
CCTrCH-IE-ContainerList1 { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IEsSetParam } }

```

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```
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 ::= {
-- R3-002235,CR179r1
{ 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-DPCCCH-SlotFormat        UL-DPCCCH-SlotFormat,
    ul-SIRTarget                UL-SIR          OPTIONAL,
    diversityMode               DiversityMode,
-- R3-001901,CR160r1
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 ::= {

```

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```
{ 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,
```

-- R3-002259,CR178r1

-- Either Initial DL TX Power IE or Primary CPICH Ec/No IE shall be present.

```
sSDT-CellID SSDT-CellID OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
IE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}
```

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

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

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

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

```
RadioLinkSetupRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
```

-- R3-002235,CR179r1

{ 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}

-- R3-001909,CR148r1

```

{ ID id-UL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE UL-Physical-Channel-Information-RL-SetupRqstTDD PRESENCE
mandatory } |
{ ID id-DL-Physical-Channel-Information-RL-SetupRqstTDD CRITICALITY reject TYPE DL-Physical-Channel-Information-RL-SetupRqstTDD PRESENCE
mandatory } |
{ ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } |
{ ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
{ ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
{ ID id-DCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
{ ID id-DSCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE DSCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
{ ID id-USCH-InformationList-RL-SetupRqstTDD CRITICALITY reject TYPE USCH-InformationList-RL-SetupRqstTDD PRESENCE optional } |
{ ID id-RL-Information-RL-SetupRqstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD PRESENCE mandatory },
...
}

```

```

-- R3-001909,CR148r1
UL-Physical-Channel-Information-RL-SetupRqstTDD ::= SEQUENCE {
    maxNrTimeslots-UL MaxNrTimeslots,
    minimumSpreadingFactor-UL MinimumSpreadingFactor,
    maxNrULPhysicalchannels MaxNrULPhysicalchannels,
    iE-Extensions ProtocolExtensionContainer { {UL-Physical-Channel-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= CCTrCH-IE-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,
}

```


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```
iE-Extensions          ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

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

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  ul-cCH-ID             CCH-ID, -- UL CCH in which the DCH is mapped
  dl-cCH-ID             CCH-ID, -- DL CCH in which the DCH is mapped
  trCH-SourceStatisticsDescriptor TrCH-SourceStatisticsDescriptor,
  ul-transportFormatSet TransportFormatSet,
  dl-transportFormatSet TransportFormatSet,
  ul-BLER               BLER,
  dl-BLER               BLER,
  allocationRetentionPriority AllocationRetentionPriority,
  frameHandlingPriority  FrameHandlingPriority,
  -- R3-002186,CR171r1
  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           CCH-ID,
  trChSourceStatisticsDescriptor TrCH-SourceStatisticsDescriptor,
  transportFormatSet     TransportFormatSet,
  allocationRetentionPriority AllocationRetentionPriority,
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  BLER                   BLER,
  iE-Extensions          ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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


-- *****
--
-- 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 } |
 -- R3-001906,CR153r1
 ~~{ 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,
 -- R3-002282,CR193
 uRA-ID URA-ID,
 sAI SAI,
 gA-Cell GA-Cell OPTIONAL,
 gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
 -- R3-001976,CR164r2
 ~~ul-InterferenceLevel UL-InterferenceLevel,~~
 ~~rSSI RSSI,~~
 secondary-CCPCH-Info Secondary-CCPCH-Info-RL-SetupRspFDD OPTIONAL,
 dl-CodeInformation DL-CodeInformationList-RL-SetupRspFDD,
 diversityIndication DiversityIndication-RL-SetupRspFDD,
 -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
 -- the tabular message format in subclause 9.1.
 sSDT-SupportIndicator SSDT-SupportIndicator,
 maxUL-SIR UL-SIR,

```
minUL-SIR                UL-SIR,
closedloopTimingadjustmentmode  ClosedloopTimingAdjustmentMode OPTIONAL,
maximumAllowedULTxPower      MaximumAllowedULTxPower,
-- R3-001904,CR152r1
maximumDLTxPower            DL-Power,
minimumDLTxPower            DL-Power,
dSCHInformationResponse     DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
iE-Extensions               ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
iB-SG-Rep                   IB-SG-REP,
segmentInformationList       SegmentInformationList-RL-SetupRspFDD,
}
```

```

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

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

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

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

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

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

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

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

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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 {
-- R3-001972,CR161r2
  dschInformationList      DSCHInformationList-RL-SetupRspFDD,
  pdSCHCodeMapping        PDSCHCodeMapping,
  iE-Extensions           ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

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

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

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

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-ContainerProtocolIE-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 } |
  -- R3-002277,CR153r2
  { ID id-UL-SIRTarget          CRITICALITY ignore TYPE UL-SIR          PRESENCE mandatory } |
  -- R3-001906,CR153r1
  { 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,
  -- R3-002282,CR193
  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,
  -- R3-001904,CR152r1
  maximumDLTxPower          DL-Power,

```

```

minimumDLTxPower          DL-Power,
-- R3-002077,CR146r3
timingAdjustmentRequired  TimingAdjustmentRequired,
ul-CCTrCHInformation      UL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dl-CCTrCHInformation      DL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dCH-InformationResponse   DCH-InformationResponseList-RL-SetupRspTDD,
dsch-InformationResponse  DSCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
usch-InformationResponse  USCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
-- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
iE-Extensions            ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
timeSlot          TimeSlot,
-- R3-001976,CR164r2
ul-InterferenceLevel  UL-InterferenceLevel,
iSCP                  UL-TimeslotISCP,
iE-Extensions        ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-ContainerProtocolIE-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,
-- R3-002210,CR149r2
ul-DPCH-Information  UL-DPCH-InformationList-RL-SetupRspTDD  OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

```



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

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

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

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

```
DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  -- R3-002229, CR169r2
  burstType BurstType,
  midambleShiftMidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  dL-Code-InformationList-RL-SetupRspTDD DL-Code-InformationList-RL-SetupRspTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

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

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

```
DL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
```

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

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

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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 } |
    -- R3-001906,CR153r1
    { 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-ContainerProtocolIE-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-ContainerProtocolIE-Single-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

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

```



```

sSDT-SupportIndicator          SSDT-SupportIndicator,
maxUL-SIR                      UL-SIR,
minUL-SIR                      UL-SIR,
closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL,
maximumAllowedULTxPower       MaximumAllowedULTxPower,
-- R3-001904,CR152r1
maximumDLTxPower              DL-Power,
minimumDLTxPower              DL-Power,
dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}

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

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-ContainerProtocolIE-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,
-- R3-002336,CR190r1
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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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-ContainerProtocolIE-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 {
```



```

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

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

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

GeneralCauseList-RL-SetupFailureTDD ::= ProtocolIE-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 }|
  ...
}

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 }|
  ...
}

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

```



```
...
}

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,
    -- R3-002257,CR186r1
    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,
  -- R3-002084,CR174
  iSCP          ISCP,
  dL-TimeslotISCP DL-TimeslotISCP,
  iE-Extensions     ProtocolExtensionContainer { { Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
Timeslot-ISCPItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RadioLinkAdditionRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{RadioLinkAdditionResponseFDD-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}          OPTIONAL,
  ...
}
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore  TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory
  } |
  { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics          PRESENCE optional },
  ...
}
RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-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,
    -- R3-002282,CR193
    uRA-ID                URA-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    -- R3-001976,CR164r2
    ul-InterferenceLevel UL-InterferenceLevel,
    rSSI RSSI,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-AdditionRspFDD OPTIONAL,
    dl-CodeInformation  DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSDT-SupportIndicator,
    minUL-SIR            UL-SIR,
    maxUL-SIR            UL-SIR,
    closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    -- R3-001904,CR152r1
    maximumDLTxPower    DL-Power,
    minimumDLTxPower    DL-Power,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

```

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

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

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

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

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

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

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

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

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

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-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 }
    ...
}

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 }
  ...
}

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 }
  ...
}

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 }
  ...
}

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
    ...
}

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,
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,
  -- R3-002282,CR193
  uRA-ID URA-ID,
  sAI SAI,
  gA-Cell GA-Cell OPTIONAL,
  gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
  ul-InterferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
  -- R3-002077,CR146r3
  timingAdjustmentRequired TimingAdjustmentRequired,
  ul-CCTrCHInformation UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  dl-CCTrCHInformation DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
  diversityIndication DiversityIndication-RL-AdditionRspTDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  minUL-SIR UL-SIR,
  maxUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  -- R3-001904,CR152r1
  maximumDLTxPower DL-Power,
  minimumDLTxPower DL-Power,
  dSCH-InformationResponse DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  uSCH-InformationResponse USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  -- R3-001976,CR164r2
  ul-InterferenceLevel UL-InterferenceLevel,
  iSCP UL-TimeslotISCP,
  iE-Extensions ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

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

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-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

-- R3-002210,CR149r2
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

```



```

}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tDD-DPCHOffset        TDD-DPCHOffset,
  uL-Timeslot-InformationList-RL-AdditionRspTDD  UL-Timeslot-InformationList-RL-AdditionRspTDD,
  iE-Extensions         ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,7..)) OF UL-Timeslot-InformationItem-RL-AdditionRspTDD
UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  timeSlot              TimeSlot,
  -- R3-002229,CR169r2
  burstType          BurstType,
  midambleShiftmidambleShiftAndBurstType  MidambleShiftMidambleShiftAndBurstType,
  tFCI-Presence         TFCI-Presence,
  uL-Code-InformationList-RL-AdditionRspTDD  UL-Code-InformationList-RL-AdditionRspTDD,
  iE-Extensions         ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,7..)) OF UL-Code-InformationItem-RL-AdditionRspTDD
UL-Code-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  dPCH-ID              DPCH-ID,
  tDD-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions         ProtocolExtensionContainer { {UL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-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
}
...

```

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}  
  
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD  
  
-- R3-002210, CR149r2  
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
    cCTrCH-ID          CCTrCH-ID,  
    dl-DPCH-Information DL-DPCH-InformationList-RL-AdditionRspTDD OPTIONAL,  
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,  
    ...  
}  
  
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-ContainerProtocolIE-Single-Container 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 ::= {  
    ...  
}  
  
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
    repetitionPeriod      RepetitionPeriod,  
    repetitionLength      RepetitionLength,  
    tDD-DPCHOffset        TDD-DPCHOffset,  
    dL-Timeslot-InformationList-RL-AdditionRspTDD UL-Timeslot-InformationList-RL-AdditionRspTDD,  
    iE-Extensions         ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,  
    ...  
}
```



```
...
}

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 }
    ...
}

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 }
    ...
}

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-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 {

```



```

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 }
...
}

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 ::= {

```

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```
{ 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,
-- R3-002282,CR193
  uRA-ID               URA-ID,
  sAI                  SAI,
-- R3-001976,CR164r2
ul-InterferenceLevel  UL-InterferenceLevel,
  rSSI                 RSSI,
  dl-CodeInformation  DL-CodeInformationList-RL-AdditionFailureFDD,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator  SSdT-SupportIndicator,
  minUL-SIR              UL-SIR,
  maxUL-SIR              UL-SIR,
  closedloopTimingadjustmentmode  ClosedloopTimingadjustmentmode  OPTIONAL,
  maximumAllowedULTxPower  MaximumAllowedULTxPower,
-- R3-001904,CR152r1
  maximumDLTxPower      DL-Power,
  minimumDLTxPower      DL-Power,
  neighbouring-CellInformationList  Neighbouring-CellInformationList-RL-AdditionFailureFDD  OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} }  OPTIONAL,
  ...
}

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

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-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 } ,
  ...
}

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,
-- R3-002336,CR190r1
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-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 }T
  ...
}

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 } }
    ...
}

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

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

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

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu         UARFCN,
    uARFCNforNd         UARFCN,
    frameOffset         FrameOffset OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power  PrimaryCPICH-Power OPTIONAL,
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

-- *****
--
-- 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 }τ
  ...
}

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 }τ
  ...
}

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 ::= {
  ...
}
```

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```
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}}      OPTIONAL,
    ...
}

RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime             CRITICALITY reject TYPE AllowedQueuingTime             PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD PRESENCE optional } |

```



```

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 ::= {
...
}

-- R3-001972,CR161r2
DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyInformationItem-RL-ReconfPrepFDD

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

```

}

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

... }

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

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

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

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

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

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

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

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

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

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```
}  
  
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,  
  R3-001901,CR160r1  
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,  
  -- This IE is present if Diversity Mode IE in UL DPCCH Information group is present, unless it is equal to "none"  
  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' --,  
  -- R3-001901,CR160r1  
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,  
  -- This IE is present if Diversity Mode IE in UL DPCCH Information group is present, unless it is equal to "none"  
  iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,  
  ...  
}  
  
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
  ...  
}  
  
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {  
  ...  
}  
  
-- *****  
--  
-- RADIO LINK RECONFIGURATION PREPARE TDD  
--  
-- *****  
  
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {  
  protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationPrepareTDD-IEs}},  
  protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} 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 } |
```


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

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

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

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-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,
 -- R3-002254,CR173r1
cCtRch-TPCList CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
 ...
}

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

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

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

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

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

DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {

```

    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD      CRITICALITY notify   TYPE DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD  PRESENCE
mandatory  },
    ...
}

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

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

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

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

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

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

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

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

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

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {

```

```

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

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

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

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
dCH-ID                            DCH-ID,
ul-CCTrCH-ID                     CCTrCH-ID,
dl-CCTrCH-ID                     CCTrCH-ID,
trCH-SrcStatisticsDescr         TrCH-SrcStatisticsDescr,
ul-TransportformatSet           TransportFormatSet,
dl-TransportformatSet           TransportFormatSet,
ul-BLER                          BLER,
dl-BLER                          BLER,
allocationRetentionPriority      AllocationRetentionPriority,
frameHandlingPriority            FrameHandlingPriority,
-- R3-002186,CR171r1
qE-Selector                      QE-Selector OPTIONAL,
-- This IE is present only if DCH is part of set of Coordinated DCHs
iE-Extensions                    ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    -- R#-1972,CR161r2
    uSCH-ID                USCH-ID OPTIONAL,

```

```

ul-ccTrCHID                CCH-CH-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            CCH-CH-ID,
  trChSourceStatisticsDescriptor  TrCH-SourceStatisticsDescr,
  transportFormatSet      TransportFormatSet,
  allocationRetentionPriority    AllocationRetentionPriority,
  schedulingPriorityIndicator    SchedulingPriorityIndicator,
  bLER                    BLER,
  rb-Info                RB-Info,
  iE-Extensions          ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

-- *****

```

```

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

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

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

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

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

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    max-UL-SIR                UL-SIR                OPTIONAL,
    min-UL-SIR                UL-SIR                OPTIONAL,
    maximumDLTxPower        DL-Power                OPTIONAL,
    minimumDLTxPower       DL-Power                OPTIONAL,
    secondary-CCPCH-Info      Secondary-CCPCH-Info-RL-ReconfReadyFDD    OPTIONAL,
    dl-CodeInformationList     DL-CodeInformationList-RL-ReconfReadyFDD    OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyFDD    OPTIONAL,
    dSCHToBeAddedOrModified   DSCHToBeAddedOrModified-RL-ReconfReadyFDD    OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

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

Secondary-CCPCH-Info-RL-ReconfReadyFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset        FDD-S-CCPCH-Offset,
    dl-ScramblingCode          DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                    TFCS,
    secondaryCCPCH-SlotFormat  SecondaryCCPCH-SlotFormat,
}

```

```

tFCI-Presence          TFCI-Presence    OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
multiplexingPosition   MultiplexingPosition,
STTD-Indicator         STTD-Indicator,
fACH-PCH-InformationList FACH-PCH-InformationList-RL-ReconfReadyFDD,
schedulingInformation  SchedulingInformation-RL-ReconfReadyFDD,
iE-Extensions         ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

```

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

```
DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfReadyFDD
```

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

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

```
DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-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 }  
  ...  
}
```

```
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 }  
  ...  
}
```

```
DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {  
  dschInformation DSCHInformation-RL-ReconfReadyFDD,
```



```

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,
  -- R3-001904,CR152r1
  maximumDLTxPower           DL-Power        OPTIONAL,
  minimumDLTxPower           DL-Power        OPTIONAL,
  ul-CCTrCH-Information       UL-CCTrCH-InformationList-RL-ReconfReadyTDD  OPTIONAL,
  dl-CCTrCH-Information       DL-CCTrCH-InformationList-RL-ReconfReadyTDD  OPTIONAL,
  dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD  OPTIONAL,
  dSCHsToBeAddedOrModified    DSCHToBeAddedOrModified-RL-ReconfReadyTDD  OPTIONAL,
  uSCHsToBeAddedOrModified    USCHToBeAddedOrModified-RL-ReconfReadyTDD  OPTIONAL,
  iE-Extensions               ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

UL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-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
} }
...
}

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,
  ...
}

```



```

burstType BurstType,
midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType,
tFCI-Presence TFCI-Presence,
uL-Code-InformationAddList-RL-ReconfReadyTDD UL-Code-InformationAddList-RL-ReconfReadyTDD,
iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs...)) OF UL-Code-InformationAddItem-RL-ReconfReadyTDD

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

UL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-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 },
...
}

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 ::= {

```


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```
{ 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~~ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

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

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

```
DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCCTrCH-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~~ProtocolIE-Single-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}

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

-- R3-002210,CR149r2

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

```
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID DPCCH-ChannelisationCode,
  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-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-InformationAddList-RL-ReconfReadyTDD DL-Timeslot-InformationAddList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

DL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  -- R3-002229, CR169r2
  burstType BurstType,
  midambleShiftMidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  dL-Code-InformationAddList-RL-ReconfReadyTDD DL-Code-InformationAddList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-InformationAddItem-RL-ReconfReadyTDD
```

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

```
DL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-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 } }
  ...
}
```

```
-- R3-002210,CR149r2
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-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod  RepetitionPeriod  OPTIONAL,
  repetitionLength  RepetitionLength  OPTIONAL,
  tDD-DPCHOffset    TDD-DPCHOffset  OPTIONAL,
  dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  OPTIONAL,
  iE-Extensions    ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
...
}
DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,7...)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD
```

```
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  -- R3-002229,CR169r2
  burstType BurstType OPTIONAL,
  midambleShiftmidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  dL-Code-InformationModifyList-RL-ReconfReadyTDD DL-Code-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
...
}
DL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,7...)) OF DL-Code-InformationModifyItem-RL-ReconfReadyTDD
```

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

```
DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
...
}
DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-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 }
  ...
}
```

```
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 ::= {
```



```

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
  }
  ...
}

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

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  uSCH-ID          USCH-ID,
  -- R3-001908,CR147r1
  transportFormatManagement TransportFormatManagement,
  bindingID        BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions   ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

```


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

RadioLinkReconfigurationCommit-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CFN          CRITICALITY ignore  TYPE CFN          PRESENCE mandatory } |
    { 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 } }
    ...
}
```



```

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 {
    cCtTrCH-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,
-- R3-002186,CR171r1
qE-Selector                           QE-Selector OPTIONAL,
-- This IE is present only if DCH is part of set of Coordinated DCHs
iE-Extensions                         ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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,
  -- R3-001904,CR152r1
  maximumDLTxPower     DL-Power        OPTIONAL,
  minimumDLTxPower     DL-Power        OPTIONAL,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp  OPTIONAL,
  dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfRsp  OPTIONAL,
  dL-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp  OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
  ...
}
```

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

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

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

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

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

```
FACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
...
}

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

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

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

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

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

DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-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
    }
    ...
}

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-ReconfResp CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfResp PRESENCE optional }  
  ...  
}
```

```
DL-CodeInformationListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfRsp
```

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

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

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

```
-- *****  
--  
-- RADIO LINK FAILURE INDICATION  
--  
-- *****
```

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

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

```
Reporting-Object-RL-FailureInd ::= CHOICE {  
  rL RL-RL-FailureInd,  
  rL-Set RL-Set-RL-FailureInd,  
  ...  
}
```

```
}  
  
RL-RL-FailureInd ::= ProtocolIE-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 }  
  ...  
}  
  
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 }T
...
}

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 }T
    ...
}

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},
  -- This IE is present only 'Adjustment Type " equals to 'Common' or 'Individual'
  ...
}

DL-ReferencePowerInformationList-DL-PC-Rqst ::= RL-IE-ContainerList1 { {DL-ReferencePowerInformation-DL-PC-Rqst-IEs} }

DL-ReferencePowerInformation-DL-PC-Rqst-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformation-DL-PC-Rqst  CRITICALITY ignore  TYPE DL-ReferencePowerInformation-DL-PC-Rqst  PRESENCE mandatory  },
  ...
}
```



```

DL-ReferencePowerInformation-DL-PC-Rqst ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-Reference-Power   DL-Power,
    iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs} } OPTIONAL,
    ...
}

DL-ReferencePowerInformation-DL-PC-Rqst-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-PowerControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- PHYSICAL CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

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

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

RL-Information-PhyChReconfRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-CodeInformations  DL-CodeInformationList-PhyChReconfRqstFDD,
    iE-Extensions       ProtocolExtensionContainer { {RL-Information-PhyChReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CodeInformationList-PhyChReconfRqstFDD ::= ProtocolIE-Container ProtocolIE-Single-Container { {DL-CodeInformationList-PhyChReconfRqstFDD} }

DL-CodeInformationList-PhyChReconfRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationList-PhyChReconfRqstFDD CRITICALITY notify TYPE DL-CodeInformationList-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 ::= {

```

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

-- R3-002210,CR149r2
UL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-ContainerProtocolIE-Single-ContainerDPCH-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 ::= {
  ...
}

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

```

}
UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Timeslot-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS) ) OF UL-Timeslot-InformationItem-PhyChReconfRqstTDD
UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  -- R3-002229, CR169r2
  burstType BurstType OPTIONAL,
  midambleShiftMidambleShiftAndBurstType MidambleShiftMidambleShiftAndBurstType OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  uL-Code-InformationList-PhyChReconfRqstTDD UL-Code-InformationList-PhyChReconfRqstTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Code-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs) ) OF UL-Code-InformationItem-PhyChReconfRqstTDD
UL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer { {UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-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,
}

```



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

```
-- R3-002340, CR192r1
-- *****
```

```
-- UPLINK SIGNALLING TRANSFER INDICATION FDD
--
-- *****
```

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

```
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 } |
}
```

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```
{ ID id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD PRESENCE optional },  
...  
}
```

```
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD
```

```
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndFDD ::= SEQUENCE {  
  rNC-ID RNC-ID,  
  iE-Extensions ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD-ExtIEs} } OPTIONAL,  
  ...  
}
```

```
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

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

```
-- *****  
--  
-- UPLINK SIGNALLING TRANSFER INDICATION TDD  
--  
-- *****
```

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

```
UplinkSignallingTransferIndicationTDD-IEs RNSAP-PROTOCOL-IES ::= {  
  { ID id-UC-ID CRITICALITY ignore TYPE UC-ID PRESENCE mandatory } |  
  { ID id-SAI CRITICALITY ignore TYPE SAI PRESENCE mandatory } |  
  { ID id-GA-Cell CRITICALITY ignore TYPE GA-Cell PRESENCE optional } |  
  { ID id-C-RNTI CRITICALITY ignore TYPE C-RNTI PRESENCE mandatory } |  
  { ID id-S-RNTI CRITICALITY ignore TYPE S-RNTI PRESENCE mandatory } |  
  { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional } |  
  { ID id-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-IndTDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD PRESENCE optional },  
  ...  
}
```



```

}
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD
RNCsWithCellsInTheAccessedURA-Item-UL-ST-IndTDD ::= SEQUENCE {
  rNC-ID RNC-ID,
  iE-Extensions ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD-ExtIEs} } OPTIONAL,
  ...
}
RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UplinkSignallingTransferIndicationTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- DOWNLINK SIGNALLING TRANSFER REQUEST
--
-- *****

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

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

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

-- *****
--
-- RELOCATION COMMIT
--
-- *****

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

```

```

...
}

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

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

-- *****
--
-- PAGING REQUEST
--
-- *****

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

PagingRequest-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-PagingArea-PagingRqst          CRITICALITY ignore TYPE PagingArea-PagingRqst          PRESENCE mandatory } |
  { ID id-SRNC-ID          CRITICALITY ignore TYPE RNC-ID          PRESENCE mandatory } |
  { ID id-S-RNTI          CRITICALITY ignore TYPE S-RNTI          PRESENCE mandatory } |
  { ID id-IMSI          CRITICALITY ignore TYPE IMSI          PRESENCE mandatory } |
  { ID id-DRXCycleLengthCoefficient          CRITICALITY ignore TYPE DRXCycleLengthCoefficient          PRESENCE mandatory },
  ...
}

PagingArea-PagingRqst ::= CHOICE {
  uRA          URA-PagingRqst,
  cell          Cell-PagingRqst,
  ...
}

URA-PagingRqst ::= ProtocolIE-ContainerProtocolIE-Single-Container {{ URAIE-PagingRqst }}

URAIE-PagingRqst RNSAP-PROTOCOL-IES ::= {
  { ID id-URAItem-PagingRqst          CRITICALITY ignore TYPE URAItem-PagingRqst PRESENCE mandatory }
  ...
}

URAItem-PagingRqst ::= SEQUENCE {
  uRA-ID          URA-ID,
  iE-Extensions   ProtocolExtensionContainer { { URAItem-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 }
  ...
}

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,

```

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```
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 }
  ...
}

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 }
  ...
}

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}}
    ...
}
```

```
DedicatedMeasurementInitiationResponse-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID          PRESENCE mandatory } |
    -- R3-002208,CR183r1
    { 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 }
    ...
}
```

```
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 }
    ...
}
```

```
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 ::= {
...
}

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

```

-- DEDICATED MEASUREMENT INITIATION FAILURE
--
-- *****
DedicatedMeasurementInitiationFailure ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{DedicatedMeasurementInitiationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{DedicatedMeasurementInitiationFailure-Extensions}}
  ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
  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 ::= {

```


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```
{ ID id-RLItem-DM-Rprt          CRITICALITY ignore          TYPE          RLItem-DM-Rprt          PRESENCE          mandatory }T
...
}

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 }T
    ...
}

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 }
  ...
}

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 }
  ...
}

MeasurementnotAvailableItem-DedicatedMeasurementReport ::= NULL
```

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

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

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

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

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

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

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

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

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

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

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

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 }
  ...
}

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
  }
  ...
}

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 }
  ...
}

```

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-Container~~ProtocolIE-Single-Container { { MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspFDD } }

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

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

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

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

```
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD ::= SEQUENCE {
    preambleSignatures          PreambleSignatures,
    pRACH-MinimumSpreadingFactor PRACH-MinimumSpreadingFactor,
    scramblingCodeNumber        ScramblingCodeNumber,
    punctureLimit                PunctureLimit,
    rACH-SubChannelNumbers       RACH-SubChannelNumbers,
    iE-Extensions               ProtocolExtensionContainer { { RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs } } OPTIONAL,
    ...
}
```

```
RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```

}

RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD

RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    iE-Extensions         ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI          CRITICALITY ignore TYPE S-RNTI          PRESENCE mandatory } |
    { ID id-C-RNTI          CRITICALITY ignore TYPE C-RNTI          PRESENCE optional   } |
    { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-URA-ID          CRITICALITY ignore TYPE URA-ID          PRESENCE optional   } |
    { ID id-MultipleURAsIndicator CRITICALITY ignore TYPE MultipleURAsIndicator PRESENCE optional } |
    { ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD CRITICALITY ignore TYPE RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress PRESENCE optional } |
    { ID id-BindingID        CRITICALITY ignore TYPE BindingID        PRESENCE optional   } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizes PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD,

```


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```
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 }T
...
}

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-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-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-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 }
    ...
}

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-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 }
    ...
}

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD

```

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```
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 }τ
    ...
}

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

9.3.4 Information Element Definitions

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

-- R3-001916,CR167
RNSAP-IEs { object identifier to be allocated }
RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }
}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    maxCodeNumComp-1,
    maxNoTFCIGroups,
    maxNoCodeGroups,
    maxNrOfErrors,
    maxRateMatching,
    maxNrOfPoints,
    maxNrOfTFCs,
    maxNrOfTFs,
    maxCTFC,
    maxTFCI1Combs,
    maxTFCI2Combs,
    maxTFCI2Combs-1,
    maxTGPS,
    maxTTI-Count
FROM RNSAP-Constants

    Criticality,
-- R3-002361,CR199
    ProcedureCodeID,
    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 ::= {
    ...
}
```

```
-- R3-002332,CR197
AdjustmentPeriod ::= INTEGER(1..300)
-- Unit Frame
```

```
Transmission Gap Pattern Sequence Status List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
SEQUENCE {
  R3-002336,CR190x1
  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
```

```
-- 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
}

-- R3-002229,CR169r2
BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2)
}

-- C

Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

-- R3-002324,CR195
abstract-syntax-error-falsely-constructed-message,
    ...
}

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,

```


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```
combining-resources-not-available,  
reconfiguration-not-allowed,  
requested-configuration-not-supported,  
synchronisation-failure,  
-- R3-002347,CR185r3  
no-closed-loop-timing-adjustmentrequested-tx-diversity-mode-not-supportedeconfigured,  
measurement-temporarily-not-available,  
unspecified,  
invalid-CM-settings,  
-- R3-001922,CR157r1  
reconfiguration-CFN-not-elapsed,  
unspecified,  
-- R3-001893,CR156r1  
number-of-DL-codes-not-supported,  
-- R3-002347,CR185r1  
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,  
-- R3-002346,CR192r1  
transaction-not-supported-by-destination-node-b,  
...  
}  
  
CauseTransport ::= ENUMERATED {  
    transmission-link-failure,  
    transmission-port-not-available,  
    unspecified,  
    ...  
}  
  
C-ID ::= INTEGER (0..65535)  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CellIndividualOffset ::= INTEGER (-20..20)  
  
-- R3-00xxxx,CR196r2  
CellParameterID ::= INTEGER (0..127, ...)  
  
CFN ::= INTEGER (0..255)  
  
-- R3-00xxxx,CR196r1  
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)  
  
-- R3-00xxxx,CR196r1  
CodingRate ::= ENUMERATED {  
  half,  
  third,  
  ...  
}  
  
-- R3-00xxxx,CR196r1  
CRC-Size ::= ENUMERATED {  
  v0,  
  v8,  
  v12,  
  v16,  
  v24,  
  ...  
}  
  
CriticalityDiagnostics ::= SEQUENCE {  
  -- R3-002361,CR199  
  procedureCodeID ProcedureCodeID OPTIONAL,  
  triggeringMessage TriggeringMessage OPTIONAL,  
  criticalityResponse Criticality OPTIONAL,  
  transactionID TransactionID OPTIONAL,  
  iEsCriticalityResponses CriticalityDiagnostics-IE-List,  
  iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,  
  ...  
}  
  
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        criticalityResponse    Criticality,
        iE-ID                  ProtocolIE-ID,
        repetitionNumber       RepetitionNumber OPTIONAL,
        iE-Extensions          ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        ...
    }

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

-- R3-001972,CR!61r2
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 ::= {
    ...
}

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

-- D

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

-- R3-1972,CR!61r2
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
}
```

```

rSCP,
round-trip-time,
rx-timing-deviation,
round-trip-time,
...
}

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
roundTripTime      Round-Trip-Time-Value, -- FDD only
    ...
}

DeltaSIR ::= INTEGER (0..30)
-- R3-002336,CR190r1
-- Step 0.1 dB, +Range 0..3 dB.

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not
}

-- R3-002332,CR197
DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closedLoopModel,
    closedLoopMode2,
    ...
}

-- R3-002332,CR197
DL-DPCH-SlotFormat ::= INTEGER (0..16,...)

-- R3-001906,CR153r1
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,

```

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```
not-release-D-RNTI
}

DL-ScramblingCode ::= INTEGER (0..15)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

-- R3-002084,CR174
DL-TimeslotISCP ::= INTEGER (0..91)
-- According to mapping in [24]

-- R3-002332,CR197
Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    ...
}

-- R3-002333,CR198r1
DPCH-ID ::= INTEGER (0..239)

DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB

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

DRXCycleLengthCoefficient ::= INTEGER (2..12)

-- R3-001901,CR160r1
D-FieldLength ::= ENUMERATED {
    v1,
    v2
}

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

-- E

EventA ::= SEQUENCE {
    measurementThreshold MeasurementThreshold,
    measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,
```

```
iE-Extensions          ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

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

-- F

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

-- R3-002232,CR176r1
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)

-- R3-002332,CR197
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}

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

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

```
-- G

GapLength          ::= INTEGER (1..14)
-- R3-002336,CR190r1
-- Unit Slot
-- R3-002332,CR197
GapDuration        ::= INTEGER (1..144,...)
-- R3-002336,CR190r1
-- 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 ::= {
  ...
}

-- H

-- I

-- R3-001896,CR162r1
IB-SG-POS          ::= INTEGER (0..40944095)
```


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-- Only even positions allowed

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}

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

-- R3-001974,CR166r1

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

-- R3-002084,CR174

~~ISCP ::= INTEGER (0..91)
-- According to mapping in 25.225~~

-- J
-- K
-- L

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

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

L3-Information ::= BIT STRING

-- M

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

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

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

-- R3-001909,CR148r1

MaxNrDLPhysicalchannels ::= INTEGER (1..2242)

MaxNrTimeslots ::= INTEGER (1..14)

MaxNrULPhysicalchannels ::= INTEGER (1..2224)

MaxTFCIvalue ::= INTEGER (1..1023)

MeasurementAvailabilityIndicator ::= ENUMERATED {
measurementAvailable,
measurementnotAvailable
}

```
-- R3-00xxxx,CR196r1
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)
```

```
-- R3-001909,CR148r1
MinimumSpreadingFactor ::= INTEGER (1..16)
```

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

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

```
-- R3-002332,CR197
AdjustmentPeriod ::= INTEGER(1..300)
-- Unit Frame
```

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

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

```
-- R3-00xxxx,CR196r1
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
```

```
-- R3-00xxxx,CR196r1
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,
-- R3-001972,CR161r2
round-trip-time                Round-Trip-Time-Value,
rx-timing-deviation              Rx-Timing-Deviation-Value,
round-trip-time                Round-Trip-Time-Value,
...
}

-- R3-002229,CR169r2
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
    },
}
-- R3-00xxxx,CR198r1
...
}

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

```

```

-- N

NrOfDLchannelisationcodes ::= INTEGER (1..8)

-- R3-001895,CR158r1
NrOfTransportBlocks ::= INTEGER (0..4095512)

-- O

-- P

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}

-- R3-00xxxx,CR196r2
PCCPCH-Power ::= INTEGER (-150..400)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dBm

PDSCHCodeMapping ::= SEQUENCE {
    dL-ScramblingCode DL-ScramblingCode,
    signallingMethod PDSCHCodeMapping-SignallingMethod,
    iE-Extensions ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs } } OPTIONAL,
    ...
}

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

PDSCHCodeMapping-SignallingMethod ::= CHOICE {
    pDSCHCodeMapping-SignallingMethod-CodeRange PDSCHCodeMapping-SignallingMethod-CodeRange,
    pDSCHCodeMapping-SignallingMethod-TFCIRange PDSCHCodeMapping-SignallingMethod-TFCIRange,
    pDSCHCodeMapping-SignallingMethod-Explicit PDSCHCodeMapping-SignallingMethod-Explicit
}

PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEQUENCE (SIZE (1..maxNoCodeGroups)) OF
SEQUENCE {
    spreadingFactor SpreadingFactor,
    multi-code-info Multi-code-info,
    start-CodeNumber CodeNumber,
    stop-CodeNumber CodeNumber,
    ...
}

PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
SEQUENCE {

```

```

maxTFCIvalue           MaxTFCIvalue,
spreadingFactor        SpreadingFactor,
multi-code-info        Multi-code-info,
codeNumber             CodeNumber,
...
}

PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
SEQUENCE {
    spreadingFactor        SpreadingFactor,
    multi-code-info        Multi-code-info,
    codeNumber             CodeNumber,
    ...
}

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

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

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

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

PowerOffset           ::= INTEGER (0..24)

-- R3-002333,CR198
PRACH-Midamble ::= ENUMERATED {
    inverted,
    direct,
    ...
}

PRACH-MinimumSpreadingFactor ::= ENUMERATED {
    v32,
    v64,
    v128,
    v256,
    ...
}

PreambleSignatures   ::= BIT STRING (SIZE (16))

```

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```
-- Bit 0=P0, Bit 1=P1, .. ,Bit 15=P15 See ref. [21] --

PrimaryCPICH-Power      ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

PrimaryCPICH-EcNo       ::= INTEGER (-30..30)

PrimaryCCPCH-RSCP       ::= INTEGER (0..91)
-- According to maping in [14]

PrimaryScramblingCode   ::= INTEGER (0..511)

PropagationDelay        ::= INTEGER (0..255)

-- R3-002332,CR179
SyncCase ::= ENUMERATED {
  case1,
  case2
}

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

-- Q

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

-- R

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

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute  ::= INTEGER (1..maxRateMatching)

-- R3-002333,CR198
RB-Identity            ::= INTEGER (0..31+5)

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength      ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
  v1,
  v2,
```

```
v4,  
v8,  
v16,  
v32,  
v64  
}  
  
-- R3-002302, CR194  
RepetitionNumber ::= INTEGER (10..2565)  
  
ReportCharacteristics ::= CHOICE {  
    onDemand          NULL,  
    periodic          Periodic,  
    eventA            EventA,  
    eventB            EventB,  
    eventC            EventC,  
    eventD            EventD,  
    eventE            EventE,  
    eventF            EventF,  
    ...  
}  
  
-- R3-00xxxx, CR196r1  
ReportPeriodicity ::= CHOICE {  
    ten-msec          INTEGER (1..6000,...),  
    -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.  
    -- E.g. value 6000 means 60000ms (i.e. 1min)  
    -- Unit ms, Step 10ms  
    min              INTEGER (1..60,...)  
    -- Unit min, Step 1min  
}  
  
RL-ID                ::= INTEGER (0..31)  
  
RL-Set-ID            ::= INTEGER (0..31)  
  
RNC-ID               ::= INTEGER (0..4095)  
  
-- R3-001974, CR166r1  
RPM ::= ENUMERATED {  
mode-0,  
mode-1  
}  
  
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)  
  
Round-Trip-Time-Value ::= INTEGER(0..8191)  
-- According to mapping in 25.215  
  
RSCP-Value ::= INTEGER (0..81)
```

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```
-- According to mapping in [14]
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

-- R3-001976,CR164r2
RSSI ::= INTEGER (0..621)
-- According to mapping in [11]

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

-- S

SAC ::= OCTET STRING (SIZE (2))

SAI ::= SEQUENCE {
    pLMN-ID          PLMN-ID,
    LAC              LAC,
    sAC              SAC,
    iE-Extensions   ProtocolExtensionContainer { {SAI-ExtIES} } OPTIONAL
}

SAI-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

-- R3-002332,CR197
ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

ScramblingCodeNumber ::= INTEGER (0..15)

-- R3-002332,CR197
SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeslot-related,
    ...
}

SIR-Error-Value ::= INTEGER (0..125)

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)

SIR-Value ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225

SIR-Value-IncrDecrThres ::= INTEGER (0..62)

-- R3-002332,CR197
SecondaryCCPCH-SlotFormat ::= INTEGER (0..17,...)
```


-- refer to 25.211

SN ::= TimeSlot

-- R3-002332, CR197

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

SpreadingFactor ::= INTEGER (4 | 8 | 16 | 32 | 64 | 128 | 256)

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

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

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

SSDT-Indication ::= ENUMERATED {
sSDT-active-in-the-UE,
sSDT-not-active-in-the-UE
}

SSDT-SupportIndicator ::= ENUMERATED {
sSDT-supported,
sSDT-not-supported
}

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

STTD-SupportIndicator ::= ENUMERATED {
sTTD-Supported,
sTTD-not-Supported
}

```
}  
  
-- R3-002332,CR179  
-- R3-00xxxx,CR196r2  
SyncCase ::= INTEGER (1..2,..) ENUMERATED {  
    case1,  
    case2  
}
```

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

```
-- R3-002210,CR149r2  
TDD-DPCHOffset ::= CHOICE {  
    initialOffset INTEGER (0..255),  
    noinitialOffset INTEGER (0..63)  
}
```

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

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

-- R3-002333,CR198
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

-- R3-002336,CR190r1
TGPSID ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

-- R3-002077,CR146r3
TimingAdjustmentRequired ::= ENUMERATED {
    nNoAdjustment,
    adjustmentRequired
}
```

ToAWE ::= INTEGER (0..2559)

ToAWS ::= INTEGER (0..1279)

-- R3-002336,CR190r1

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,

-- R3-001974,CR166r1

- ~~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
}

```
-- R3-002332,CR197
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
-- R3-002336,CR190r1
        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 ::= {
    ...
}

-- R3-002331,CR196r1
TransmissionTimeInterval-DP ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    ...
}

-- R3-002331,CR196r1
TransmissionTimeInterval-SP ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic
}
}

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

TransportBearerID          ::= INTEGER (0..4095)

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

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

```

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

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

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

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

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

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

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCi1Combs)) OF
SEQUENCE {
    cTFC          TFCS-CTFC,
    iE-Extensions ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } } OPTIONAL,
    ...
}

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

```

```
    ...
}

TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
        maxTFCI-field2-Value      TFCI-Field2-Value,
        cTFC-DSCH                 TFCI-CTFC,
        iE-Extensions             ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs } } OPTIONAL,
        ...
    }

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

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

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

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

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

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

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

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

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```
}  
  
-- R3-002331,CR196r1  
TransportFormatSet-ModeDP ::= CHOICE {  
    tdd                TransmissionTimeInterval-DP,  
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent --  
    notApplicable      NULL,  
    ...  
}  
  
TransmissionTimeInterval-DP ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF  
    SEQUENCE {  
        transmissionTimeInterval-DP TransmissionTimeInterval-DP,  
        iE-Extensions          ProtocolExtensionContainer { {TransmissionTimeInterval-DP-ExtIEs} } OPTIONAL,  
        ...  
    }  
  
TransmissionTimeInterval-DP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
Transmitted-Code-Power-Value ::= INTEGER (0..127)  
-- According to mapping in 25.215/25.225  
  
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)  
  
TransportFormatManagement ::= ENUMERATED {  
    cell-based,  
    ue-based,  
    ...  
}  
  
-- R3-002331,CR196r1  
TransportFormatSet-Semi-staticPart ::= SEQUENCE {  
    transmissionTime-SP          TransmissionTimeInterval-SP,  
    channelCoding                ChannelCodingType,  
    codingRate                    CodingRate          OPTIONAL  
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo' --,  
    rateMatchingAttribute         RateMatchingAttribute,  
    cRC-Size                      CRC-Size,  
    mode                          TransportFormatSet-ModeSSP,  
    iE-Extensions                  ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,  
    ...  
}  
  
TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
TransportFormatSet-ModeSSP ::= CHOICE {  
    tdd                SecondInterleavingMode,
```


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```
notApplicable          NULL,
...
}

-- R3-002332,CR179
SecondInterleavingMode ::= ENUMERATED {
  frame-related,
  timeslot-related,
  ...
}

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

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

TxDiversityIndicator      ::= ENUMERATED {
  true,
  false
}

-- U

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

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

-- R3-002332,CR197
Uplink-Compressed-Mode-Method ::= ENUMERATED {
  sFdiv2,
  higher-layer-scheduling,
  ...
}

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

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

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

-- R3-002332,CR197
UL-DPCCH-SlotFormat ::= INTEGER (0..5)

-- R3-00xxxx,CR196r1
UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

-- R3-001976,CR164r2
UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps.
-- E.g. Value -600 means -60 dBm
-- Unit dBm. Step 0.1 dBm.

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

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

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

UL-ScramblingCodeNumber ::= INTEGER (0..16777215)

-- R3-001976,CR164r2
UL-TimeslotISCP ::= INTEGER (0..81)
-- According to mapping in [14]

URA-ID ::= INTEGER (0..65535)
```

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

-- V
-- W
-- X
-- Y
-- Z

END

9.3.5 Common Definitions

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

~~-- R3-001916,CR167
RNSAP-CommonDataTypes { object identifier to be allocated }
RNSAP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) }~~

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

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

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

ProcedureCode ::= INTEGER (0..255)

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

ProtocolExtensionID ::= INTEGER (0..65535)

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

TransactionID ::= CHOICE {
 shortTransActionId INTEGER (0..127),

```
longTransActionId INTEGER (0..32767)
}

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

END
```

9.3.6 Constant Definitions

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

-- R3-001916,CR167
RNSAP-Constants { object identifier to be allocated }
RNSAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }
}
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

```
-- *****
--
-- 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
-- R3-002340, CR192r1
id-uplinkSignallingTransferFDD INTEGER ::= 26
id-uplinkSignallingTransferTDD INTEGER ::= 27
```

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

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

```
-- *****
--
-- Lists
--
-- *****
```

```
maxCodeNumComp-1 INTEGER ::= 255
maxRateMatching INTEGER ::= 256
maxNoCodeGroups INTEGER ::= 256
maxNoOfDSCHs INTEGER ::= 10
maxNoOfFRB INTEGER ::= 32
maxNoOfUSCHs INTEGER ::= 10
maxNoTFCIGroups INTEGER ::= 256
maxNrOfTFCs INTEGER ::= 1024
maxNrOfTFs INTEGER ::= 32
maxNrOfCCTrCHs INTEGER ::= 16
maxNrOfDCHs INTEGER ::= 128
maxNrOfDL-Codes INTEGER ::= 8
maxNrOfDPCHs INTEGER ::= 240
maxNrOfErrors INTEGER ::= 256
maxNrOfMACcshSDU-Length INTEGER ::= 16
maxNrOfPoints INTEGER ::= 15
maxNrOfRLs INTEGER ::= 16
maxNrOfRLSets INTEGER ::= maxNrOfRLs
maxNrOfRLs-1 INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2 INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfSCCPCHs INTEGER ::= 10
maxNrOfULTs INTEGER ::= 15
maxNrOfDLTs INTEGER ::= 15
maxRNCinURA-1 INTEGER ::= 15
maxTTI-Count INTEGER ::= 4
```


id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD	INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD	INTEGER ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD	INTEGER ::= 55
id-DL-CodeInformationListIE-RL-AdditionRspFDD	INTEGER ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD	INTEGER ::= 57
id-DL-CodeInformationListIE-RL-SetupFailureFDD	INTEGER ::= 58
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 64
-- R3-001906, CR153r1	
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 69
id-DRXCycleLengthCoefficient	INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 73
id-DedicatedMeasurementType	INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 79
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 80
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 81
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 83
id-IMSI	INTEGER ::= 84
id-L3-Information	INTEGER ::= 85
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 86
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 87
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 88
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 89
id-AdjustmentPeriod	INTEGER ::= 90
id-MaxAdjustmentStep	INTEGER ::= 91
id-MeasurementFilterCoefficient	INTEGER ::= 92
id-MeasurementID	INTEGER ::= 93
id-MultipleURAsIndicator	INTEGER ::= 94

id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= 99
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 101
id-PagingArea-PagingRqst	INTEGER ::= 102
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD	INTEGER ::= 103
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD	INTEGER ::= 104
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 105
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 106
id-PowerAdjustmentType	INTEGER ::= 107
id-ProcedureScope-DL-PC-Rqst	INTEGER ::= 108
id-RANAP-RelocationInformation	INTEGER ::= 109
id-RL-Information-PhyChReconfRqstFDD	INTEGER ::= 110
id-RL-Information-PhyChReconfRqstTDD	INTEGER ::= 111
id-RL-Information-RL-AdditionRqstFDD	INTEGER ::= 112
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 113
id-RL-Information-RL-DeletionRqst	INTEGER ::= 114
id-RL-Information-RL-FailureInd	INTEGER ::= 115
id-RL-Information-RL-ReconfPrepFDD	INTEGER ::= 116
id-RL-Information-RL-RestoreInd	INTEGER ::= 117
id-RL-Information-RL-SetupRqstFDD	INTEGER ::= 118
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 119
id-RL-InformationItem-DM-Rprt	INTEGER ::= 120
id-RL-InformationItem-DM-Rqst	INTEGER ::= 121
id-RL-InformationItem-DM-Rsp	INTEGER ::= 122
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 123
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 124
id-RL-InformationList-RL-DeletionRqst	INTEGER ::= 125
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD	INTEGER ::= 128
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD	INTEGER ::= 131
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD	INTEGER ::= 135
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 136
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 137
id-RLItem-DM-Rprt	INTEGER ::= 138
id-RLItem-DM-Rqst	INTEGER ::= 139
id-RLItem-DM-Rsp	INTEGER ::= 140
id-RL-ReconfigurationFailure-RL-ReconfFail	INTEGER ::= 141
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst	INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd	INTEGER ::= 146

id-CauseLevel-RL-ReconfFailure	INTEGER ::= 199
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 200
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 201
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD	INTEGER ::= 202
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD	INTEGER ::= 203
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 204
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	INTEGER ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	INTEGER ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 207
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 209
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 210
id-DL-CodeInformationListIE-RL-ReconfRsp	INTEGER ::= 211
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	INTEGER ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 214
id-DSCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 215
id-DSCH-Add-RL-ReconfPrepFDD	INTEGER ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD	INTEGER ::= 218
id-DSCH-InformationItem-RL-SetupRqstFDD	INTEGER ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD	INTEGER ::= 221
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 222
id-DSCH-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 223
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD	INTEGER ::= 224
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD	INTEGER ::= 225
id-DSCH-Information-RL-SetupRqstFDD	INTEGER ::= 226
id-DSCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 227
id-DSCH-Modify-RL-ReconfPrepFDD	INTEGER ::= 228
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD	INTEGER ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	INTEGER ::= 230
id-GA-AccessPointPosition	INTEGER ::= 231
id-GA-Cell	INTEGER ::= 232
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 233
id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 234
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 235
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 236
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 237
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 238
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 239
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD	INTEGER ::= 240
id-Neighbouring-CellInformationItem-RL-AdditionRsp	INTEGER ::= 241
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD	INTEGER ::= 242
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD	INTEGER ::= 243
id-RLItem-RL-FailureInd	INTEGER ::= 244
id-RLItem-RL-RestoreInd	INTEGER ::= 245
id-RL-SetItem-RL-FailureInd	INTEGER ::= 246
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 247
id-RLSpecificCauseItem-RL-AdditionFailureFDD	INTEGER ::= 248
id-RLSpecificCauseItem-RL-AdditionFailureTDD	INTEGER ::= 249

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```

id-RLSpecificCauseItem-RL-ReconfFailure                INTEGER ::= 250
id-RLSpecificCauseItem-RL-SetupFailureFDD              INTEGER ::= 251
id-RLSpecificCauseItem-RL-SetupFailureTDD              INTEGER ::= 252
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD  INTEGER ::= 253
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD  INTEGER ::= 254
id-Transmission-Gap-Pattern-Sequence-Information         INTEGER ::= 255
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD          INTEGER ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD          INTEGER ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD      INTEGER ::= 258
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD      INTEGER ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD      INTEGER ::= 260
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD      INTEGER ::= 261
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD      INTEGER ::= 262
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD      INTEGER ::= 263
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD     INTEGER ::= 264
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD     INTEGER ::= 265
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD  INTEGER ::= 266
id-USCH-AddList-RL-ReconfPrepTDD                        INTEGER ::= 267
id-USCH-DeleteList-RL-ReconfPrepTDD                     INTEGER ::= 268
id-USCH-InformationListIE-RL-AdditionRspTDD              INTEGER ::= 269
id-USCH-InformationListIEs-RL-SetupRspTDD                INTEGER ::= 270
id-USCH-InformationList-RL-SetupRqstTDD                  INTEGER ::= 271
id-USCH-ModifyList-RL-ReconfPrepTDD                     INTEGER ::= 272
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD        INTEGER ::= 273
-- R3-001909,CR148r1
id-DL-Physical-Channel-Information-RL-SetupRqstTDD       INTEGER ::= 274**
id-UL-Physical-Channel-Information-RL-SetupRqstTDD       INTEGER ::= 275**
-- R3-002340,CR192r1
id--ClosedLoopModel-SupportIndicator                     INTEGER ::= 276
id-ClosedLoopMode2-SupportIndicator                      INTEGER ::= 277
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-IndTDD     INTEGER ::= 278
id-STTD-SupportIndicator                                 INTEGER ::= 279

```

END

9.3.7 Container Definitions

```

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

-- R3-001916,CR167
RNSAP-Containers { object identifier to be allocated }
RNSAP-Containers {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Containers (5) }

```

```
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}}

-- R3-002280,CR189r1
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-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
```