

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

TSGRP#8(00)0241

Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Nu
R3-001116	25.423	086		Introduction of RLS in 25.423	C	agreed	3.1.0	3.2.0
R3-001126	25.423	088		RNSAP range bounds in ASN.1 description: FDD	F	agreed	3.1.0	3.2.0
R3-001131	25.423	070	1	Introduction of RTT measurement	B	agreed	3.1.0	3.2.0
R3-001133	25.423	069	1	Measurement filtering parameters	F	agreed	3.1.0	3.2.0
R3-001137	25.423	075	1	Add "NULL" for only one component to choose in	F	agreed	3.1.0	3.2.0
R3-001139	25.423	076	1	Change INTEGER to ENUMERATED for IB SG	F	agreed	3.1.0	3.2.0
R3-001142	25.423	072	1	Alignment of Transaction ID IE with NBAP	F	agreed	3.1.0	3.2.0
R3-001193	25.423	092		RNSAP range bounds, TDD parts	F	agreed	3.1.0	3.2.0
R3-001198	25.423	082	1	Modification to TFS definition [RNSAP]	F	agreed	3.1.0	3.2.0
R3-001205	25.423	079	1	DCH information response in RL Reconfiguration	F	agreed	3.1.0	3.2.0
R3-001210	25.423	077	2	Clarification on the Combining Control field	F	agreed	3.1.0	3.2.0
R3-001219	25.423	095		Handling of closed loop timing mode over RNSAP	F	agreed	3.1.0	3.2.0

R3-001256	25.423	096		Out-of Sync RNSAP	B	agreed	3.1.0	3.2.0
R3-001257	25.423	078	2	Correction to the limited power increase parameter	F	agreed	3.1.0	3.2.0
R3-001269	25.423	107		Clarification that basic Per is used	F	agreed	3.1.0	3.2.0
R3-001273	25.423	111		Handling of presence field	F	agreed	3.1.0	3.2.0
R3-001276	25.423	112		Basic protocol robustness	C	agreed	3.1.0	3.2.0
R3-001282	25.423	114		Addition of DL TPC step sizes	F	agreed	3.1.0	3.2.0
R3-001284	25.423	115		Correction of reference handling and some other	D	agreed	3.1.0	3.2.0
R3-001296	25.423	118		Selection of secondary S-CCPCH in RNSAP	F	agreed	3.1.0	3.2.0

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

CHANGE REQUEST

25.423 CR 069 R1 Current Version: **3.1.0.**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ ↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#8** for approval strategic (for SMG use only)
list expected approval meeting # here for information 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:** **April 2000**

Subject: **Measurement filtering parameters**

Work item:

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

Reason for change: This CR updates the filter coefficients for the layer 3 filtering model in line with Tdoc R3-001021.

Clauses affected: **8.3.11, 9.2.1.28, 9.3.4**

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

Other comments:

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

8.3.11 Measurement Initiation

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

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

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

8.3.11.1 General

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

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

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

8.3.11.2 Successful Operation

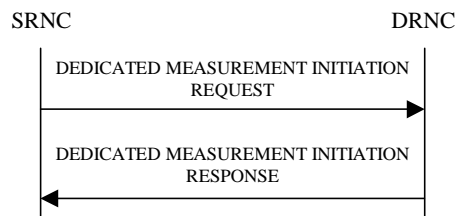


Figure 1: Measurement Initiation procedure, Successful Operation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

F_n is the updated filtered measurement result

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

M_n is the latest received measurement result from physical layer measurements

$a = 1/2^{(k/2)}$ one divided by, where k is the parameter received in the *Measurement Filter Coefficient* IE. If the *Measurement Filter Coefficient* IE is not present, a shall be set to 1 (no filtering)

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

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

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

9.2.1.28 Measurement Filter Coefficient

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Measurement Filter Coefficient	M		INTEGER (1..256) ENUMERATED(0 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19)	

```

-- M

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

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

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

MeasurementFilterCoefficient ::= INTEGER (1..256)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)

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

ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep  ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

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,
    ...
}

MeasurementThreshold ::= CHOICE {
    sir                    SIR-Value,
    sir-error              SIR-Error-Value,
    transmitted-code-power Transmitted-Code-Power-Value,
    rscp                   RSCP-Value,
    ...
}

MidambleShift           ::= INTEGER (0..15)

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

```

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 070 R1 Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **R3#8**
 list expected approval meeting # here ↑

For approval for information

strategic (for SMG use only)
 non-strategic

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

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

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

Subject: Introduction of Round Trip Time measurement

Work item:

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

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

Reason for change: So far, R3 has only very limited support for Positioning. This CR proposes to introduce the Round Trip Time measurement as a dedicated measurement on RNSAP.

Definition of measurement range granularity are taken from 25.215, v.3.2.0.

Clauses affected: 9.2.1.16, 9.2.1.17, 9.2.1.67, 9.2.1.68, 9.3.4.

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:



help.doc

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

9.2.1.16 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, Round Trip Time, ...)	RSCP is used by TDD only, Round Trip Time is used by FDD only.

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

9.2.1.17 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated measurement Value				
>SIR value	C <i>MeasValue</i>		INTEGER(0. .63)	According to mapping in 25.215/25.225
>SIR error Value	C <i>MeasValue</i>		INTEGER(0. .125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0. .127)	According to mapping in 25.215/25.225
>RSCP	C <i>MeasValue</i>		INTEGER(0. .81)	According to mapping in 25.225 (TDD only)
>Round Trip Time	C MeasValue		INTEGER(0. .8191)	According to mapping in 25.215 (FDD only)

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

9.2.1.67 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..63)	According to mapping in 25.215/25.225
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 25.215/25.225
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in 25.225 (TDD only)
Round Trip Time	C – Threshold		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.

9.2.1.68 Measurement Increase/Decrease Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – 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	C – Threshold		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.

```

-- D

DCH-CombinationInd      ::= INTEGER (0..255)

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

DedicatedMeasurementObjectType ::= ENUMERATED {
    rl,
    rls,
    all-rl,
    all-rls,
    ...
}

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    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
    ...
}

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,
    ...
}

DPCH-ID                 ::= INTEGER (0..239)

DPCHConstantValue      ::= INTEGER (-32..31)
-- Unit dBm, Step 1dBm

DRACControl             ::= ENUMERATED {
    requested,
    not-requested
}

```

```
DRXCycleLengthCoefficient ::= INTEGER (2..12)
D-FieldLength ::= ENUMERATED {
    v1,
    v2
}
```

```

-- M

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

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

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

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID           ::= INTEGER (0..1048575)

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

ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep  ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

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,
    ...
}

MidambleShift           ::= INTEGER (0..15)

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

```

```

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

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

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
}

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

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

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

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

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 25.225

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

```


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 072 R1 Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN #8**
list expected approval meeting # here ↑

for approval
 for information

strategic
 non-strategic (for SMG use only)

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

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

Source: R-WG3 **Date:** April 4, 2000

Subject: Alignment of *Transaction ID* IE with NBAP.

Work item: _____

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

Reason for change: At R3#10 in Gothenburg, Sweden, a CR (tdoc 226) on NBAP was approved which defined the Transaction ID to be a choice of short (7 bits) or long (15 bits) Transaction ID in order to allow for a big number (> 255) of parallel common procedures while still providing the flexibility of saving one octet for dedicated procedures by using the short Transaction ID.

This CR proposes to align the RNSAP Transaction ID with the NBAP definition.

Clauses affected: 9.2.1.49, 9.3.5

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.

9.2.1.49 Transaction ID

The Transaction ID is used to associate all the messages belonging to the same ~~pending~~ procedure of the same RNSAP procedure type (e.g. Radio Link Addition), i.e. the Request, Response, Confirm type of messages have the same Transaction ID. ~~The messages belonging to different pending procedures have different Transaction IDs. 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) INTEGER (0..255)	Since the scope is not clear, the range of this parameter is to be considered a working assumption

9.3.5 Common Definitions

```

-- *****
--
-- Common definitions
--
-- *****

RNSAP-CommonDataTypes -- { object identifier to be allocated }--
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   ::= INTEGER (0..65535) CHOICE {
    ShortTransActionId INTEGER (0..127),
    LongTransActionId INTEGER (0..32767)
}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessfull-outcome,
outcome }

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 075r1

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#8**

list expected approval meeting # here ↑

for approval
 for information

Strategic
 non-strategic (for SMG use only)

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

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

10 April

Subject:

Add "NULL" for only one component to choose in ASN.1 CHOICE type.

Work item:

Category:

(only one category shall be marked with an X)

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

Release:

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

Reason for change:

In the ASN.1, the definition of Transport Format Set contains CHOICE type. But the number of components of this CHOICE is only one (TDD only). This means that this component related to TDD mode is always encoded even if the TDD mode is not chosen. This CR proposes to add the NULL component to the CHOICE type so that no data is encoded when FDD mode is chosen.

Clauses affected:

9.3.4

Other specs affected:

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

Other comments:



help.doc

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

9.3.4 Information Element Definitions

`-- partly omitted --`

```
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 {
    transmissionInterval    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,...)

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTime        TransmissionTimeInterval,
    channelCoding           ChannelCodingType,
    codingRate              CodingRate OPTIONAL
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute    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,
    ...
}
```

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 076r1

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#8**
list expected approval meeting # here ↑

for approval
 for information

Strategic
 non-strategic (for SMG use only)

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

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

(U)SIM ME UTRAN / Radio Core Network

Source: **R-WG3** **Date:** **10 April**

Subject: **Change INTEGER to ENUMERATED for IB SG REP IE and TGL IE**

Work item: _____

Category:

(only one category shall be marked with an X)

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

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

Reason for change:

In the tabular and the ASN.1, the definition of IB SG REP IE and TGL IE are changed from INTEGER type to ENUMERATED type in order to reduce the bit length when encoding.

Clauses affected: **9.2.2.51, 9.2.2.33, 9.3.4**

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:



help.doc

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

9.2 Information Element Functional Definition and Contents

-- partly omitted --

9.2.2.51 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when $SFN \bmod IB_SG_REP = IB_SG_POS$.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG REP			<u>ENUMERATED</u> <u>INTEGER</u> R (16, 32, 64, 128, 256, 512, 1024, 2048)	Repetition period for the IB segment in frames

-- partly omitted --

9.2.2.33 Transmit Gap Length (TGL)

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			<u>ENUMERATED</u> <u>INTEGER</u> (3,4,7,10,14)	Slot

-- partly omitted --

9.3.4 Information Elements Definitions

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

-- partly omitted --

```
IB-SG-REP ::= INTEGER (16|32|64|128|256|512|1024|2048)ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048}
```

-- partly omitted --

```
TGL ::= INTEGER (3|4|7|10|14)ENUMERATED {
    v3,
    v4,
    v7,
    v10,
    v14
}
```


8.3.1 Radio Link Setup

8.3.1.1 General

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

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

8.3.1.2 Successful Operation

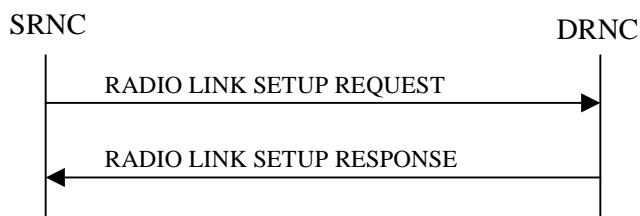


Figure 1: Radio Link Setup procedure: Successful Operation

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

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

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

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

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

If the *Primary CPICH Ec/No* IE [FDD] or the *Primary CCPCH RSCP* IE [TDD] is present, the DRNC should use them when deciding the Initial DL TX Power.

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH, the DRNS shall treat all DCHs with the same value of this IE as a set of co-ordinated DCHs.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

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

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH as the new DCH FP Mode in the Uplink of the user plane for this DCH.

The DRNS shall use the included *ToAWS* IE for a DCH as the new Time of Arrival Window Start Point in the user plane for this DCH.

The DRNS shall use the included *ToAWE* IE for a DCH as the new Time of Arrival Window End Point in the user plane for this DCH.

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

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

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

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

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

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

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

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

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

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

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

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC, CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx diversity indicator* and Tx diversity capability (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*) in Neighbouring FDD Cell Information].

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

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

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

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

8.3.1.3 Unsuccessful Operation

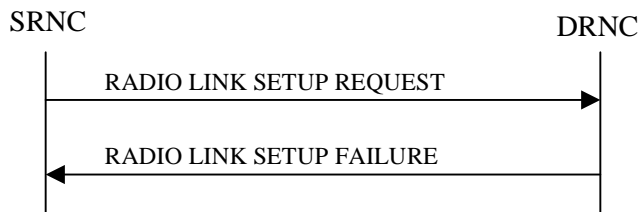


Figure 2: Radio Link Setup procedure: Unsuccessful Operation

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

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

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

Typical cause values are:

Radio Network Layer Causes:

- [FDD - UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- [FDD - ~~Macrodiversity~~ Combining Resources not availablePossible];
- Requested Configuration not Supported;
- Cell not Available;
- Power Level not Supported.

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

- Transaction not Allowed

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

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

8.3.2 Radio Link Addition

8.3.2.1 General

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

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

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

8.3.2.2 Successful Operation

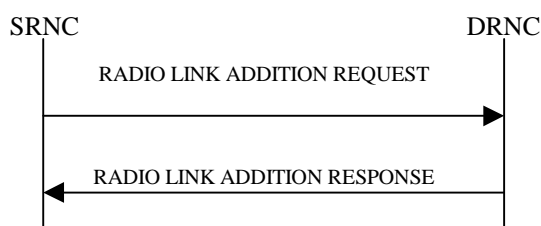


Figure 3: Radio Link Addition procedure: Successful Operation

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

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

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

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

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT may be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

The DRNS shall activate any feedback mode diversity according to the received settings.

If all requested RLs are successfully added, the DRNC shall respond with a RADIO LINK ADDITION RESPONSE message.

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

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

In the case of combining an RL with existing RL(s) the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the DRNC shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the co-ordinated DCHs.

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the Primary Scrambling Code and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value], Frame Offset of the neighbouring cell, Tx diversity indicator [FDD], and Tx diversity capability[FDD] (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*).

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

The DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].

[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control IE* was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info IE* to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

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

8.3.2.3 Unsuccessful Operation

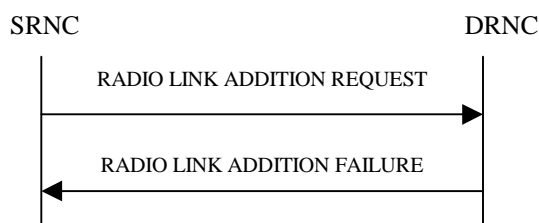


Figure 4: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall send a RADIO LINK ADDITION FAILURE as response.

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

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

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- ~~Macrodiversity~~ Combining Resources not available ~~not Possible~~;
- Cell not Available;
- Power Level not Supported.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

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

8.3.2.4 Abnormal Conditions

-

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, <u>Macrodiversity-Combining Resources Not Possible Available</u> , Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Unspecified,...)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport link failure, Transmission port not available, Unspecified,...)	
> <i>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

9.3.4 Information Element Definitions

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

.....

```
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,
    macro-diversity-combining-resources-not-possibleavailable,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    unspecified,
    ...
}
```


CHANGE REQUEST		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
25.423 CR 078r2		Current Version: 3.1.0	
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>	
For submission to: TSG RAN#8	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	<small>(for SMG use only)</small>
<small>list expected approval meeting # here ↑</small>	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

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

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

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

Subject: Correction to the Limited Power increase parameter.

Work item:

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

Reason for change: At the WG3 meeting #11, the DCH parameter 'RLC mode' was renamed to 'Limited Power increase'. Since it is used to define if the limited power increase shall be applied to the RL or not, it shall refer to the RL instead of the DCH.

In this CR Limited Power Increase parameter is removed from the DCH parameters and included in the DL DPCH Information (*this is different idea than in the original version. Reason for this is that the same value of Limited Power increase parameter shall be used in all Radio Links*) parameters in the following messages:
 Radio Link Setup Request (FDD message),
 Radio Link Reconfiguration Prepare (FDD message),
 Radio Link Reconfiguration Request (FDD message).

In the corresponding TDD messages Limited Power Increase parameter is removed from the DCH parameters.

Clauses affected: 8.3.4 Synchronised Radio Link Reconfiguration Preparation
 8.3.7 Unsynchronised Radio Link Reconfiguration
 9.1.3 Radio Link Setup Request (both FDD and TDD message)
 9.1.11 Radio Link Reconfiguration Prepare (both FDD and TDD message)
 9.1.16 Radio Link Reconfiguration Request (both FDD and TDD message)
 9.3.3 NPAB PDU Context Definitions

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:

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

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

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

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

8.3.4.2 Successful Operation

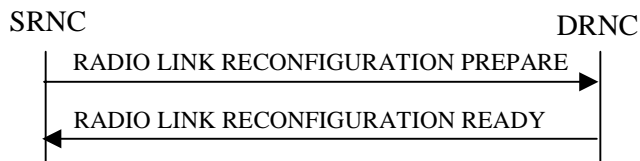


Figure 1: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each

Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Addition:

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Spreading Factor of Channelisation Code (DL)* IE, for each *Spreading Factor of Channelisation Code (DL)* IE the DRNS shall allocate one new Downlink Channelisation Code per Radio Link and apply the new Downlink Channelisation Code(s) to the new

configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a *Channelisation Code (DL)* IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC.]

The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[TDD – The DRNC shall include all the IEs corresponding to the new physical channel resources for the DL DPCH and/or the UL DPCH to be reconfigured in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

SSDT Activation/Deactivation:

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

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

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

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

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

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

8.3.7 Unsynchronised Radio Link Reconfiguration

8.3.7.1 General

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

The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

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

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

8.3.7.2 Successful Operation

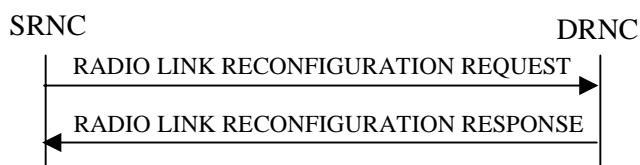


Figure 2: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

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

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

DCH Modification:

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

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

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *UL FP Mode* IE for a DCH to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

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

DCH Addition:

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

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

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

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

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	reject
D-RNTI	O				YES	reject
Allowed Queuing time	O				YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	M				–	
>Min UL Channelisation Code Length	M				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	M			For the UL.	–	
>UL Transport Format Combination Set	M				–	
>UL DPCCH Slot Format	M				–	
>Uplink SIR Target	O		Uplink SIR		–	
>Diversity mode	M				–	
>D Field Length	C-FB				–	
>SSDT Cell ID Length	O				–	
>S Field Length	O				–	
DL DPCH Information		1			YES	reject
>Transport Format Combination Set	M				–	
>DL DPCH Slot Format	M				–	
>TFCI Signalling Mode	M				–	
>TFCI Presence	C- SlotFormat				–	
>Multiplexing Position	M				–	
>Power Offset Information		1			–	
>>PO1	M		Power Offset	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M				–	
>Limited Power Increase	M				–	
DCH Information		1..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
> QE-Selector	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC control	M				–	
RL Information		<i>1...<maxnoofRLs></i>			EACH	notify
>RL ID	M				–	
>C-ID	M				–	
>Frame Offset	M				–	
>Chip Offset	M				–	
>Propagation Delay	O				–	
>Diversity Control Field	C – NotFirstRL				–	
>Initial DL TX Power	O		DL Power		–	
>Primary CPICH Ec/No	O				–	
>SSDT Cell ID	O				–	
>Transmit Diversity Indicator	C – Diversity mode				–	

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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	reject
D-RNTI	O				YES	reject
Allowed Queuing time	O				YES	reject
UL CCTrCH Information		<i>1..<maxno of CCTrCHs></i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M			For the UL.	–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
DL CCTrCH Information		<i>1..<maxno of CCTrCHs></i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M			For the DL.	–	
>TFCI Coding	M				–	
>Puncture Limit	M				–	
>TDD TPC Downlink Step Size	M				–	
DCH Information		<i>1..<maxno of DCHs></i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the DCH is mapped	–	
>CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Ind	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
RL Information		<i>1</i>			YES	reject
>RL ID	M				–	
>C-ID	M				–	
>Frame Offset	M				–	
>Primary CCPCH RSCP	O				–	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
UL DPCH Information		0..1			YES	reject
>UL Scrambling code	O				–	
>UL SIR Target	O		Uplink SIR		–	
>Min UL Channelisation Code Length	O				–	
>Max Number of UL DPDCHs	C – CodeLen				–	
>Puncture Limit	O			For the UL.	–	
>TFCS	O			TFCS for the UL.	–	
>UL DPCCH Slot Format	O				–	
>SSDT Cell Identity Length	O				–	
>S-Field Length	O				–	
DL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the DL.	–	
>DL DPCH Slot Format	O				–	
>TFCI Signalling Mode	O				–	
>TFCI Presence	C- SlotFormat				–	
>MultiplexingPosition	O				–	
>Limited Power Increase	O				–	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Allocation/Retention Priority	O				–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
>DRAC Control	O				–	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Indicator	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	
>QE-Selector	M				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC Control	M				–	
DCHs to Delete		<i>0..<maxnoof DCHs></i>			GLOBAL	reject
>DCH ID	M				–	
RL Information		<i>0..<maxnoof RLs></i>			EACH	reject
>RL ID	M				–	
>SSDT Indication	O				–	
>SSDT Cell Identity	C - SSDTIndON				–	

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

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

9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
UL CCTrCH Information		<i>0..<maxno of CCTrCHs></i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the UL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
DL CCTrCH Information		<i>0..<maxno of CCTrCHs></i>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	O			For the DL.	–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
DCHs to Modify		<i>0..<maxno of DCHs></i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH Id	O			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH Id	O			DL CCTrCH in which the DCH is mapped	–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Allocation/Retention Priority	O				–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
DCHs to Add		<i>0..<maxno of DCHs></i>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH Id	M			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH Id	M			DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Indicator	O				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	

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

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

9.1.16 RADIO LINK RECONFIGURATION REQUEST

9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
UL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the UL.	–	
DL DPCH Information		0..1			YES	reject
>TFCS	O			TFCS for the DL.	–	
>TFCI Signalling Mode	O				–	
> <u>Limited Power Increase</u>	<u>O</u>				<u>–</u>	
DCHs to Modify		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Allocation/Retention Priority	O				–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
>DRAC Control	O				–	
DCHs to add		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	
>DCH Combination Ind	O				–	
> <u>Limited Power Increase</u>	<u>M</u>				<u>–</u>	
>Tr Ch Source Statistics Descriptor	M				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	
>QE-Selector	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
>DRAC Control	M				–	
DCHs to Delete		0..<maxno ofDCHs>			GLOBAL	reject
>DCH ID	M				–	

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

9.1.16.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Allowed Queuing Time	O				YES	reject
UL CCTrCH Information		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
DL CCTrCH Information		0..<maxnoof CCTrCHs>			EACH	notify
>CCTrCH ID	M				–	
>TFCS	M				–	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>CCTrCH ID	O			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	O			DL CCTrCH in which the DCH is mapped	–	
>Transport Format Set	O			For the UL.	–	
>Transport Format Set	O			For the DL.	–	
>Allocation/Retention Priority	O				–	
>Frame Handling Priority	O				–	
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	
>Limited Power Increase	M				–	
>Tr Ch Source Statistics Descriptor	M				–	
>CCTrCH ID	M			UL CCTrCH in which the DCH is mapped.	–	
>CCTrCH ID	M			DL CCTrCH in which the DCH is mapped	–	
>DCH Combination Ind	O				–	
>Transport Format Set	M			For the UL.	–	
>Transport Format Set	M			For the DL.	–	
>BLER	M			For the UL.	–	
>BLER	M			For the DL.	–	
>Allocation/Retention Priority	M				–	
>Frame Handling Priority	M				–	
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
DCHs to Delete		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M				–	

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

9.3.3 PDU Definitions

.. Text omitted ..

```

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

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

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

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode            UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs              MaxNrOfUL-DPCHs    OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 -- ,
    ul-PunctureLimit             PunctureLimit,
    ul-TFCS                       TFCS,
    ul-DPCCH-SlotFormat           UL-DPCCH-SlotFormat,
    ul-SIRTarget                  UL-SIR          OPTIONAL,
    diversityMode                 DiversityMode,
    d-FieldLength                 D-FieldLength    OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellIdLength             SSDT-CellID-Length    OPTIONAL,
    s-FieldLength                 S-FieldLength      OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                          TFCS,

```

```

dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
tFCI-SignallingMode        TFCI-SignallingMode,
tFCI-Presence              TFCI-Presence          OPTIONAL
-- This IE is present if Slot Format is from 12 to 16 --,
multiplexingPosition       MultiplexingPosition,
powerOffsetInformation      SEQUENCE {
  po1-ForTFCI-Bits         PowerOffset,
  po2-ForTPC-Bits          PowerOffset,
  po3-ForPilotBits         PowerOffset,
  ...
},
fdd-dl-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
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 {
  dCH-ID                    DCH-ID,
  dCH-CombinationInd        DCH-CombinationInd          OPTIONAL,
  limitedPowerIncrease   LimitedPowerIncrease,
  trCH-SrcStatisticsDescr   TrCH-SrcStatisticsDescr,
  ul-transportFormatSet     TransportFormatSet,
  dl-transportFormatSet     TransportFormatSet,
  ul-BLER                   BLER,
  dl-BLER                   BLER,
  allocationRetentionPriority AllocationRetentionPriority,
  frameHandlingPriority     FrameHandlingPriority,
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode                UL-FP-Mode,
  qE-Selector               QE-Selector,
  toAWS                     ToAWS,
  toAWE                     ToAWE,
  dRACControl               DRACControl,
  iE-Extensions             ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

RL-InformationList-RL-SetupRqstFDD ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

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

```

```

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                 C-ID,
    frameOffset         FrameOffset,
    chipOffset          ChipOffset,
    propagationDelay    PropagationDelay    OPTIONAL,
    diversityControlField DiversityControlField    OPTIONAL
    -- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power  DL-Power            OPTIONAL,
    primaryCPICH-EcNo   PrimaryCPICH-EcNo    OPTIONAL,
    sSDT-CellID         SSDT-CellID         OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator    OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions       ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID            DCH-ID,
    ul-cCTrCH-ID      CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID      CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    dCH-CombinationInd  DCH-CombinationInd    OPTIONAL,
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr  TrCH-SrcStatisticsDescr,
    ul-transportFormatSet  TransportFormatSet,
    dl-transportFormatSet  TransportFormatSet,
    ul-BLER            BLER,
    dl-BLER            BLER,
    allocationRetentionPriority  AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS              ToAWS,
}

```

```

toAWE
iE-Extensions
...
}

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

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

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

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

```

.. Text omitted..

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****
```

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

```
RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD PRESENCE optional },
    ...
}
```

```
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
    ul-SIRTarget               UL-SIR                    OPTIONAL,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit          PunctureLimit              OPTIONAL,
    tFCS                       TFCS                    OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
    sSDT-CellIDLength          SSDT-CellID-Length          OPTIONAL,
    s-FieldLength              S-FieldLength          OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}
```

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

```
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS                       TFCS                    OPTIONAL,
    dl-DPCH-SlotFormat          DL-DPCH-SlotFormat        OPTIONAL,
    tFCI-SignallingMode         TFCI-SignallingMode        OPTIONAL,
    tFCI-Presence               TFCI-Presence            OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 --,
    multiplexingPosition        MultiplexingPosition        OPTIONAL,
    limitedPowerIncrease        LimitedPowerIncrease        OPTIONAL,
}
```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    ul-FP-Mode             UL-FP-Mode OPTIONAL,
    toAWS                  ToAWS OPTIONAL,
    toAWE                  ToAWE OPTIONAL,
    dRACControl            DRACControl OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    dCH-CombinationInd    DCH-CombinationInd OPTIONAL,
limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet  TransportFormatSet,
    dl-TransportformatSet  TransportFormatSet,
    ul-BLER                BLER,
    dl-BLER                BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode             UL-FP-Mode,
    qE-Selector            QE-Selector,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    dRACControl            DRACControl,
    iE-Extensions          ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

```



```

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

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

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

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }

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

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    sSDT-Indication SSDT-Indication    OPTIONAL,
    sSDT-CellIdentity SSDT-CellID    OPTIONAL
    -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    iE-Extensions   ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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-InformationList-RL-ReconfPrepTDD CRITICALITY notify  TYPE UL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD CRITICALITY notify  TYPE DL-CCTrCH-InformationList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD    CRITICALITY reject  TYPE DCH-ModifyList-RL-ReconfPrepTDD    PRESENCE optional } |

```

```

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

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

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

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

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

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

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

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

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

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

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID        CCTrCH-ID     OPTIONAL,
    dl-CCTrCH-ID        CCTrCH-ID     OPTIONAL,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
}

```

```

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

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

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

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

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

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

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

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

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

```

.. Text omitted..

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

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

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

```
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    tFCS          TFCS OPTIONAL,
    tFCI-SignallingMode TFCS OPTIONAL,
    limitedPowerIncrease LimitedPowerIncrease OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}
```

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

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

```
DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID          DCH-ID,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
}
```

```

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

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

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

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    dCH-CombinationInd  DCH-CombinationInd OPTIONAL,
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet TransportFormatSet,
    dl-TransportformatSet TransportFormatSet,
    ul-BLER             BLER,
    dl-BLER             BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    qE-Selector         QE-Selector,
    toAWS               ToAWS,
    toAWE               ToAWE,
    dRACControl         DRACControl,
    iE-Extensions       ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

```

```

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

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

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-ReconfRqstTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-ReconfRqstTDD PRESENCE optional } |
    { 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-InformationList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationList-RL-ReconfRqstTDD-IEs} }

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

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

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

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

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

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

```

```

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

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

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    ul-CCTrCH-ID CCTrCH-ID OPTIONAL,
    dl-CCTrCH-ID CCTrCH-ID OPTIONAL,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    ul-FP-Mode UL-FP-Mode OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

```

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

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

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


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 079r1		Current Version: 3.1.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: RAN#8 <small>list expected approval meeting # here ↑</small>	For approval for information <input checked="" type="checkbox"/>	Strategic non-strategic <input type="checkbox"/>	<small>(for SMG use only)</small>

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

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

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

Subject: Change in the structure of Radio Link Reconfiguration Ready and Radio Link Reconfiguration Response messages.

Work item:

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

Reason for change:

If the Transport Layer Addresses information is indicated to be changed by the DRNC in Radio Link Reconfiguration Ready or Radio Link Reconfiguration Response message, 'RL Information Response' identifies new Binding ID and Transport Layer Address information separately for DCHs which are *to be modified* and *to be added*. This separation is not necessary as the SRNC knows which DCHs are modified ones and which are new ones.

For clarity, it's proposed to modify the message structure so that there's no separation the for modified and added channels that are allocated a new Transport Layer Address.

The information group DCH Information Response used in RL Setup and RL Addition is then applied also here, without the need to defines new groups.

Clauses affected:

- 8.3.4 Synchronised Radio Link Reconfiguration Preparation
- 8.3.7 Unsynchronised Radio Link Reconfiguration
- 9.1.12 RADIO LINK RECONFIGURATION READY
- 9.1.17 RADIO LINK RECONFIGURATION RESPONSE
- 9.3.3 PDU Definitions
- 9.3.6 Constant Definitions

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:

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

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

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

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

8.3.4.2 Successful Operation

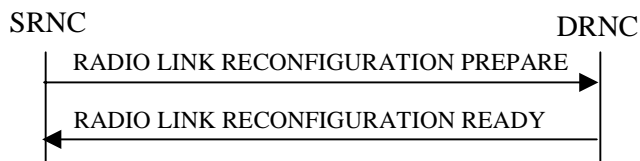


Figure 1: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each

Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Addition:

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Spreading Factor of Channelisation Code (DL)* IE, for each *Spreading Factor of Channelisation Code (DL)* IE the DRNS shall allocate one new Downlink Channelisation Code per Radio Link and apply the new Downlink Channelisation Code(s) to the new

configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a *Channelisation Code (DL)* IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC.]

The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

[TDD – The DRNC shall include all the IEs corresponding to the new physical channel resources for the DL DPCH and/or the UL DPCH to be reconfigured in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

SSDT Activation/Deactivation:

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

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

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

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

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

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

8.3.7 Unsynchronised Radio Link Reconfiguration

8.3.7.1 General

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

The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

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

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

8.3.7.2 Successful Operation

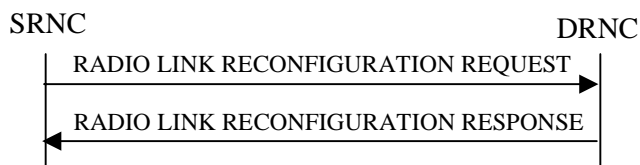


Figure 2: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

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

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

DCH Modification:

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

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

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *UL FP Mode* IE for a DCH to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

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

DCH Addition:

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the *DCH Combination Indicator IE* for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator IE* in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector IE* set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.427]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector IE* set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.427]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.427]. If all DCHs have *QE-Selector IE* set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.427]].

The DRNS should store the *Frame Handling Priority IE* received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode IE* for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS IE* for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE IE* for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS IE* for the UL, the DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS IE* for the DL, the DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

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

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
RL Information Response		<i>0..<maxno ofRLs></i>			EACH	ignore
>RL ID	M				–	
>Maximum Uplink SIR	O		Uplink SIR		–	
>Minimum Uplink SIR	O		Uplink SIR		–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>> Scheduling Information		1			–	
>>>>IB_SG REP	M				–	
>>>> Segment Information		1.. <maxIBSEG>			–	
>>>>>IB SG POS	M				–	
> Downlink Code Information		<i>0..<maxno ofDLCode s></i>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
> DCH Information Response to be Added		<i>0..<maxno ofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				included only once per DCH per set of combined RLs.		
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
>DCH to be Modified		<i>0..<maxno ofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
Criticality Diagnostics	O				YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
RL Information Response		0..1			YES	ignore
>RL ID	M				-	
>Maximum Uplink SIR	O		Uplink SIR		-	
>Minimum Uplink SIR	O		Uplink SIR		-	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				-	
>>UL DPCH Information		1..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				-	
>>>TDD Channelisation Code	O				-	
>>>Burst Type	O				-	
>>>Midamble Shift	O				-	
>>>Time Slot	O				-	
>>>TDD Physical Channel Offset	O				-	
>>>Repetition Period	O				-	
>>>Repetition Length	O				-	
>>>TFCI Presence	O				-	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				-	
>>DL DPCH Information		1..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				-	
>>>TDD Channelisation Code	O				-	
>>>Burst Type	O				-	
>>>Midamble Shift	O				-	
>>>Time Slot	O				-	
>>>TDD Physical Channel Offset	O				-	
>>> Repetition Period	O				-	
>>>Repetition Length	O				-	
>>>TFCI Presence	O				-	
>DCH Information Response to be Added		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
>DCH to be Modified		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
Criticality Diagnostics	O				YES	ignore

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

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				-	
RL Information Response		0..<maxno ofRLs>			EACH	ignore
>RL ID	M				-	
>Maximum Uplink SIR	O		Uplink SIR		-	
>Minimum Uplink SIR	O		Uplink SIR		-	
>Secondary CCPCH Info		0..1			-	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	-	
>>DL Scrambling Code	M				-	
>>FDD DL Channelisation Code Number	M				-	
>>TFCS	M			For the DL.	-	
>>Secondary CCPCH Slot Format	M				-	
>>TFCl presence	C - SlotFormat				-	
>>MultiplexingPosition	M				-	
>>STTD Indicator	M				-	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			-	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	-	
>>Scheduling Information		1			-	
>>>IB_SG REP	M				-	
>>>Segment Information		1.. <maxIBSEG>			-	
>>>>IB SG POS	M				-	
>DCH Information Response to be Added		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
>DCH to be Modified		0..<maxno		Only one	GLOBAL	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
		<i>of DCHs</i> >		DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M				-	
>>Binding ID	M				-	
>>Transport Layer Address	M				-	
Criticality Diagnostics	O				YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLS for a UE.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

9.3.3 PDU Definitions

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

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

BEGIN

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

IMPORTS
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    CFNOffset,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CompressedModeMethod,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-CombinationInd,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-FrameType,
    DL-Power,
    DL-ScramblingCode,
    DPCHConstantValue,
    DPCH-ID,
```

DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
FACH-InitialWindowSize,
FACH-PriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FrameHandlingPriority,
FrameOffset,
GapPeriod,
GapPositionMode,
IB-SG-POS,
IB-SG-REP,
IMSI,
L3-Information,
LimitedPowerIncrease,
MAC-c-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
PD,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerControlMode,
PowerOffset,
PowerResumeMode,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RANAP-RelocationInformation,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,

```

SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
ScaledMaxAdjustmentPeriod,
ScaledMaxAdjustmentStep,
ScramblingCodeChange,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TGD,
TGL,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DeltaSIR,
UL-DeltaSIRAfter,
UL-DL-CompressedModeSelection,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID
FROM RNSAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
RNSAP-PRIVATE-IES,
RNSAP-PROTOCOL-EXTENSION,
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-IES-PAIR

```


FROM RNSAP-Containers

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

id-AllRLItem-DM-Rprt,
 id-AllRLItem-DM-Rsp,
 id-AllRL-SetItem-DM-Rprt,
 id-AllRL-SetItem-DM-Rsp,
 id-AllowedQueuingTime,
 id-BindingID,
 id-C-ID,
 id-C-RNTI,
 id-CFN,
 id-CN-CS-DomainIdentifier,
 id-CN-PS-DomainIdentifier,
 id-Cause,
 id-CellItem-PagingRqst,
 id-CM-PatternInformationItem-CompressedModePrep,
 id-CM-PatternInformationList-CompressedModePrep,
 id-CombiningItem-RL-AdditionFailureFDD,
 id-CombiningItem-RL-AdditionRspFDD,
 id-CombiningItem-RL-AdditionRspTDD,
 id-CombiningItem-RL-SetupFailureFDD,
 id-CombiningItem-RL-SetupRspFDD,
 id-CriticalityDiagnostics,
 id-D-RNTI,
 id-D-RNTI-ReleaseIndication,
~~id-DCH-AddListIE-RL-ReconfReadyFDD,~~
~~id-DCH-AddListIE-RL-ReconfReadyTDD,~~
~~id-DCH-AddListIE-RL-ReconfRsp,~~
 id-DCH-AddList-RL-ReconfPrepFDD,
 id-DCH-AddList-RL-ReconfPrepTDD,
 id-DCH-AddList-RL-ReconfRqstFDD,
 id-DCH-AddList-RL-ReconfRqstTDD,
 id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfRqstFDD,

id-DCH-DeleteList-RL-ReconfRqstTDD,
 id-DCH-Information-RL-SetupRqstFDD,
 id-DCH-InformationList-RL-SetupRqstTDD,
~~id-DCH-InformationRresponseListIE-RL-ReconfReadyFDD,~~
~~id-DCH-InformationRresponseListIE-RL-ReconfReadyTDD,~~
~~id-DCH-InformationRresponseListIE-RL-ReconfRsp,~~
~~id-DCH-ModifyListIE-RL-ReconfReadyFDD,~~
~~id-DCH-ModifyListIE-RL-ReconfReadyTDD,~~
~~id-DCH-ModifyListIE-RL-ReconfRsp,~~
 id-DCH-ModifyList-RL-ReconfPrepFDD,
 id-DCH-ModifyList-RL-ReconfPrepTDD,
 id-DCH-ModifyList-RL-ReconfRqstFDD,
 id-DCH-ModifyList-RL-ReconfRqstTDD,
 id-DCH-InformationResponseListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
 id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
 id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
 id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
 id-DL-CodeInformationListIE-RL-AdditionRspFDD,
 id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
 id-DL-CodeInformationListIE-RL-SetupFailureFDD,
 id-DL-DPCH-Information-RL-ReconfPrepFDD,
 id-DL-DPCH-Information-RL-SetupRqstFDD,
 id-DL-DPCH-Information-RL-ReconfRqstFDD,
 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
 id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
 id-DL-DPCH-InformationItem-RL-SetupRspTDD,
 id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-SIRTarget,
 id-DLReferencePower,
 id-DLReferencePowerList-DL-PC-Rqst,
 id-DL-ReferencePowerInformation-DL-PC-Rqst,
 id-DRXCycleLengthCoefficient,
 id-DedicatedMeasurementObjectType-DM-Rprt,
 id-DedicatedMeasurementObjectType-DM-Rqst,
 id-DedicatedMeasurementObjectType-DM-Rsp,
 id-DedicatedMeasurementType,
 id-DiversityIndicationItem-RL-AdditionFailureFDD,
 id-DiversityIndicationItem-RL-AdditionRspFDD,
 id-DiversityIndicationItem-RL-AdditionRspTDD,
 id-DiversityIndicationItem-RL-SetupFailureFDD,
 id-DiversityIndicationItem-RL-SetupRspFDD,
 id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD,
 id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD,
 id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD,
 id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD,

id-IMSI,
id-L3-Information,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
id-MaxAdjustmentPeriod,
id-MaxAdjustmentStep,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MultipleURAsIndicator,
id-NeighbouringFDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringFDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-SetupRsp,
id-NeighbouringTDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringTDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-SetupRsp,
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
id-Neighbouring-CellInformationItem-RL-SetupRsp,
id-NonCombiningItem-RL-AdditionFailureFDD,
id-NonCombiningItem-RL-AdditionRspFDD,
id-NonCombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD,
id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD,
id-PagingArea-PagingRqst,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
id-PowerAdjustmentType,
id-ProcedureScope-DL-PC-Rqst,
id-RANAP-RelocationInformation,
id-RL-Information-PhyChReconfRqstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRqstFDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-DeletionRqst,
id-RL-Information-RL-FailureInd,
id-RL-Information-RL-ReconfPrepFDD,
id-RL-Information-RL-RestoreInd,
id-RL-Information-RL-SetupRqstFDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRqstFDD,
id-RL-InformationList-RL-DeletionRqst,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-ReconfReadyTDD,
id-RL-InformationResponse-RL-SetupRspTDD,

id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RLItem-DM-Rprt,
id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-ReconfigurationFailureList-RL-ReconfFail,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-Information-RL-FailureInd,
id-RL-Set-Information-RL-RestoreInd,
id-RL-SetItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-SetItem-DM-Rsp,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-S-RNTI,
id-SAI,
id-SRNC-ID,
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-TransportBearerID,
id-TransportBearerRequestIndicator,
id-TransportLayerAddress,
id-UC-ID,
id-UL-CCTrCH-Information-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,

```
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD,  
id-UL-SIRTarget,  
id-URA-ID,  
id-URAIItem-PagingRqst,  
id-UnsuccessfulRL-InformationResponse,  
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,  
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,  
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,  
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,  
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD  
FROM RNSAP-Constants;
```

.. Text omitted ..

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

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

```
RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-ReconfReadyFDD    CRITICALITY ignore    TYPE RL-InformationResponseList-RL-ReconfReadyFDD    PRESENCE
optional    } |
    { ID id-CriticalityDiagnostics                CRITICALITY ignore    TYPE CriticalityDiagnostics                PRESENCE optional },
    ...
}
```

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

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

```
RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    max-UL-SIR               UL-SIR                OPTIONAL,
    min-UL-SIR               UL-SIR                OPTIONAL,
    secondary-CCPCH-Info     Secondary-CCPCH-Info-RL-ReconfReadyFDD    OPTIONAL,
    dl-CodeInformationList   DL-CodeInformationList-RL-ReconfReadyFDD    OPTIONAL,
dCHsToBeAdded             DCH-AddList-RL-ReconfReadyFDD    OPTIONAL,
dCHsToBeModified         DCH-ModifyList-RL-ReconfReadyFDD    OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-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-Container { { DL-CodeInformationListIEs-RL-ReconfReadyFDD } }

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

```

```

}

DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfReadyFDD

DL-CodeInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

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

DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-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 ::= {
    ...
}

DCH-AddList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfReadyFDD} }

DCH-AddListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-AddListIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

DCH-AddListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReadyFDD

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

```



```

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

DCH-ModifyList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfReadyFDD} }

DCH-ModifyListIEs-RL-ReconfReadyFDD-RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyListIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DCH-ModifyListIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}

DCH-ModifyListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReadyFDD

DCH-ModifyItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dch-ID DCH-ID,
    bindingID BindingID,
    transportLayerAddress TransportLayerAddress,
    ie-Extensions ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

```

```

dCHsToBeAdded          DCH-AddList-RL-ReconfReadyTDD          OPTIONAL,
dCHsToBeModified       DCH-ModifyList-RL-ReconfReadyTDD       OPTIONAL,
dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
iE-Extensions          ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

```

```

}
UL-DPCH-InformationList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}
DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-ReconfReadyTDD PRESENCE
  mandatory },
  ...
}
DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD
DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  dl-DPCH-Information DL-DPCH-InformationList-RL-ReconfReadyTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-DPCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationListIEs-RL-ReconfReadyTDD}}
DL-DPCH-InformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationListIE-RL-ReconfReadyTDD PRESENCE
  mandatory },
  ...
}
DL-DPCH-InformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-ReconfReadyTDD
DL-DPCH-InformationItem-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-InformationList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-DPCH-InformationList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

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

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

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

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

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

DCH-AddList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfReadyTDD} }

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

DCH-AddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfReadyTDD

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

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

DCH-ModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfReadyTDD} }

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

DCH-ModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfReadyTDD

```

```

DCH-ModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dch-ID                      DCH-ID,
  bindingID                   BindingID,
  transportLayerAddress       TransportLayerAddress,
  ie-Extensions               ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfReadyTDD-IEs} } OPTIONAL,
  ...
}

DCH-ModifyItem-RL-ReconfReadyTDD-IEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

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

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 },
  ...
}

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

```

```

}

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

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

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

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

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

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

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

RadioLinkReconfigurationCancel-IEs RNSAP-PROTOCOL-IES ::= {
  ...
}

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

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

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

```

```

}

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

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  tFCS          TFCS          OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  tFCS          TFCS          OPTIONAL,
  tFCI-SignallingMode  TFCS-SignallingMode OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
  dCH-ID          DCH-ID,
  ul-TransportformatSet  TransportFormatSet OPTIONAL,
  dl-TransportformatSet  TransportFormatSet OPTIONAL,
  allocationRetentionPriority  AllocationRetentionPriority OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority OPTIONAL,
  ul-FP-Mode          UL-FP-Mode          OPTIONAL,
  toAWS              ToAWS              OPTIONAL,
  toAWE              ToAWE              OPTIONAL,
  dRACControl        DRACControl        OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

```

```

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    dCH-CombinationInd    DCH-CombinationInd OPTIONAL,
    limitedPowerIncrease  LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet TransportFormatSet,
    dl-TransportformatSet TransportFormatSet,
    ul-BLER               BLER,
    dl-BLER               BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode            UL-FP-Mode,
    qE-Selector           QE-Selector,
    toAWS                 ToAWS,
    toAWE                 ToAWE,
    dRACControl           DRACControl,
    iE-Extensions         ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

```



```

RadioLinkReconfigurationRequestTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-AllowedQueuingTime          CRITICALITY reject  TYPE AllowedQueuingTime          PRESENCE optional } |
  { ID id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE UL-CCTrCH-InformationList-RL-ReconfRqstTDD  PRESENCE optional } |
  { ID id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD  CRITICALITY notify  TYPE DL-CCTrCH-InformationList-RL-ReconfRqstTDD  PRESENCE optional } |
  { 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-InformationList-RL-ReconfRqstTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-InformationList-RL-ReconfRqstTDD-IEs} }

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

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

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

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

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

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

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

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

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
  dCH-ID              DCH-ID,
  ul-CCTrCH-ID        CCTrCH-ID          OPTIONAL,
  dl-CCTrCH-ID        CCTrCH-ID          OPTIONAL,
  ul-TransportformatSet  TransportFormatSet  OPTIONAL,
  dl-TransportformatSet  TransportFormatSet  OPTIONAL,
}

```

```

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

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

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

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

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

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

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

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

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

```

```

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

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR          OPTIONAL,
    min-UL-SIR           UL-SIR          OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp    OPTIONAL,
    dCHsToBeAdded      DCH-AddList-RL-ReconfRsp            OPTIONAL,
    dCHsToBeModified    DCH-ModifyList-RL-ReconfRsp         OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-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-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 ::= {
    ...
}

DCH-AddList-RL-ReconfRsp ::= ProtocolIE-Container { {DCH-AddListIEs-RL-ReconfRsp} }

DCH-AddListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-AddListIE-RL-ReconfRsp    CRITICALITY ignore    TYPE DCH-AddListIE-RL-ReconfRsp    PRESENCE mandatory    },
    ...
}

DCH-AddListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRsp

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

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

DCH-ModifyList-RL-ReconfRsp ::= ProtocolIE-Container { {DCH-ModifyListIEs-RL-ReconfRsp} }

DCH-ModifyListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-ModifyListIE-RL-ReconfRsp    CRITICALITY ignore    TYPE DCH-ModifyListIE-RL-ReconfRsp    PRESENCE mandatory    },
    ...
}

DCH-ModifyListIE-RL-ReconfRsp ::= SEQUENCE (SIZE(0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRsp

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

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

```

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

9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

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

BEGIN

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

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD         INTEGER ::= 1
id-commonTransportChannelResourcesRelease               INTEGER ::= 2
id-compressedModeCancellationFDD                       INTEGER ::= 3
id-compressedModeCommitFDD                             INTEGER ::= 4
id-compressedModePrepareFDD                            INTEGER ::= 5
id-downlinkPowerControl                                INTEGER ::= 6
id-downlinkSignallingTransfer                           INTEGER ::= 7
id-errorIndication                                     INTEGER ::= 8
id-measurementFailure                                  INTEGER ::= 9
id-measurementInitiation                               INTEGER ::= 10
id-measurementReporting                                 INTEGER ::= 11
id-measurementTermination                              INTEGER ::= 12
id-pagingRequest                                       INTEGER ::= 13
id-physicalChannelReconfiguration                      INTEGER ::= 14
id-privateMessage                                       INTEGER ::= 15
id-radioLinkAddition                                   INTEGER ::= 16
id-radioLinkDeletion                                   INTEGER ::= 17
id-radioLinkFailure                                     INTEGER ::= 18
id-radioLinkRestoration                                INTEGER ::= 19
id-radioLinkSetup                                       INTEGER ::= 20
id-srnsRelocationCommit                               INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation    INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit          INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare        INTEGER ::= 24
id-unSynchronisedRadioLinkReconfiguration              INTEGER ::= 25
id-uplinkSignallingTransfer                             INTEGER ::= 26

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs                INTEGER ::= 65535
maxProtocolExtensions        INTEGER ::= 65535
maxProtocolIEs               INTEGER ::= 65535

-- *****
--
-- Lists
--
-- *****

maxRateMatching              INTEGER ::= 10
maxNrOfTFCs                  INTEGER ::= 10
maxNrOfTFS                    INTEGER ::= 10
maxNrOfCCTrCHs               INTEGER ::= 10
maxNrOfDCHs                   INTEGER ::= 10
maxNrOfDL-Codes               INTEGER ::= 10
maxNrOfDPCHs                  INTEGER ::= 10
maxNrOfErrors                 INTEGER ::= 10
maxNrOfMACcSDU-Length        INTEGER ::= 10
maxNrOfRLs                    INTEGER ::= 10
maxNrOfRLSets                 INTEGER ::= 10
maxNrOfRLs-1                  INTEGER ::= 10
maxNrOfRLs-2                  INTEGER ::= 10
maxNrOfSCCPCHs                INTEGER ::= 10
maxNrOfULTs                   INTEGER ::= 15
maxNrOfCMPatterns             INTEGER ::= 8
maxRNCinURA                  INTEGER ::= 10
maxTTI-Count                  INTEGER ::= 10
maxCTFC-1                     INTEGER ::= 10
maxNrOfNeighbouringRNCs       INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC    INTEGER ::= 10
maxNrOfTDDNeighboursPerRNC    INTEGER ::= 10
maxFACHCountPlus1             INTEGER ::= 10
maxIBSEG                       INTEGER ::= 16

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

id-AllRLItem-DM-Rprt          INTEGER ::= 0
id-AllRLItem-DM-Rsp           INTEGER ::= 1
id-AllRL-SetItem-DM-Rprt      INTEGER ::= 2
id-AllRL-SetItem-DM-Rsp       INTEGER ::= 3
id-AllowedQueuingTime         INTEGER ::= 4
id-BindingID                  INTEGER ::= 5
id-C-ID                       INTEGER ::= 6
id-C-RNTI                     INTEGER ::= 7
id-CFN                        INTEGER ::= 8
id-CN-CS-DomainIdentifier     INTEGER ::= 9
id-CN-PS-DomainIdentifier     INTEGER ::= 10

```


id-Cause	INTEGER ::= 11
id-CellItem-PagingRqst	INTEGER ::= 12
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 13
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 14
id-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD	INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 19
id-CriticalityDiagnostics	INTEGER ::= 20
id-D-RNTI	INTEGER ::= 21
id-D-RNTI-ReleaseIndication	INTEGER ::= 22
id-DCH-AddListIE-RL-ReconfReadyFDD	INTEGER ::= 23
id-DCH-AddListIE-RL-ReconfReadyTDD	INTEGER ::= 24
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 25
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD	INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 35
id-DCH-ModifyListIE-RL-ReconfReadyFDD	INTEGER ::= 36
id-DCH-ModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 37
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 38
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD	INTEGER ::= xx
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD	INTEGER ::= xx
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= xx
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 43
id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD	INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 45
id-DL-CCTrCH-InformationItem-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-InformationList-RL-ReconfPrepTDD	INTEGER ::= 51
id-DL-CCTrCH-InformationList-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
id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 65
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 69
id-DRXCycleLengthCoefficient	INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 73
id-DedicatedMeasurementType	INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 79
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 80
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 81
id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD	INTEGER ::= 82
id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD	INTEGER ::= 83
id-IMSI	INTEGER ::= 84
id-L3-Information	INTEGER ::= 85
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 86
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 87
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 88
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 89
id-MaxAdjustmentPeriod	INTEGER ::= 90
id-MaxAdjustmentStep	INTEGER ::= 91
id-MeasurementFilterCoefficient	INTEGER ::= 92
id-MeasurementID	INTEGER ::= 93
id-MultipleURAsIndicator	INTEGER ::= 94
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= 99
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrIENotPresentItem-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-ReconfigurationFailureList-RL-ReconfFail	INTEGER ::= 142
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst	INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd	INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd	INTEGER ::= 147
id-RL-SetItem-DM-Rprt	INTEGER ::= 148
id-RL-SetItem-DM-Rqst	INTEGER ::= 149
id-RL-SetItem-DM-Rsp	INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind	INTEGER ::= 151
id-ReportCharacteristics	INTEGER ::= 152
id-Reporting-Object-RL-FailureInd	INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 154
id-S-RNTI	INTEGER ::= 155
id-SAI	INTEGER ::= 156
id-SRNC-ID	INTEGER ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD	INTEGER ::= 158
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 162
id-TransportBearerID	INTEGER ::= 163
id-TransportBearerRequestIndicator	INTEGER ::= 164
id-TransportLayerAddress	INTEGER ::= 165
id-UC-ID	INTEGER ::= 166
id-UL-CCTrCH-Information-RL-ReconfPrepTDD	INTEGER ::= 167
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 168
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 169

id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 182
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 183
id-UL-SIRTarget	INTEGER ::= 184
id-URA-ID	INTEGER ::= 185
id-URAItem-PagingRqst	INTEGER ::= 186
id-UnsuccessfulRL-InformationResponse	INTEGER ::= 187
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	INTEGER ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 192

END

**3GPP-RAN-WG3 Meeting #12
Seoul, Korea, April 10-13 2000**

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

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
25.423	CR	082r1	Current Version: 3.1.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN#8	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: R3-WG3 **Date:** April 10, 2000

Subject: Modification to TFS definition

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

(only one category Shall be marked With an X)

Reason for change: The range of Transport Block size shall start from 0 instead of 1. This change is proposed in accordance with the agreement on R1-000278.

Clauses affected: 9.2.1.54 Transport Format Set
9.3.4 Information Element Definitions

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:



help.doc

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

9.2.1.54 Transport Format Set

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
>Dynamic Transport Format Information		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..4095)	
>>Transport Block Size	C – Blocks		INTEGER (40..5000)	Bits
>CHOICE <i>mode</i>				
>>TDD				
>>>Transmission time interval	C-TTIdynamic	1..<maxTTIcount>	Enumerated(10, 20, 40, 80)	
>Semi-static Transport Format Information				
>>Transmission time interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>>Type of channel coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>>Rate matching attribute	M		INTEGER (1..maxRM)	
>>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>>CHOICE <i>mode</i>				
>>>TDD				
>>>>2 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
<i>MaxTFcount</i>	The maximum number of different transport formats that can be included in the Transport format set for one transport channel is 32.
<i>MaxRM</i>	The maximum number that could be set as rate matching attribute for a transport channel is 256.
<i>MaxTTIcount</i>	The amount of different TTI that are possible for that transport format is 4.

9.3.4 Information Element Definitions

--- partly omitted ---

```

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

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

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

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

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

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

TimeSlot ::= INTEGER (0..14)

ToAWE ::= INTEGER (0..2559)

ToAWS ::= INTEGER (0..1279)

TGD ::= INTEGER (0..3839)

TGL ::= INTEGER (3| 4| 7| 10| 14)

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

TFCS-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 --
    ...
}

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,...)

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,
    ...
}

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

```

--- partly omitted ---

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 086

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**

list expected approval meeting # here
↑

for approval
for information

Strategic
non-strategic (for SMG use only)

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

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

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

Subject: **Removal of the Definition of Radio Link Set**

Work item:

Category:	F Correction	<input type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
<small>(only one category shall be marked with an X)</small>	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input checked="" 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: **Previously the concept Radio Link Set has been introduced in NBAP and RNSAP. However, since this is a concept existing in several specifications (R3 and R1) it is proposed to remove it from NBAP and RNSAP and instead move it to the TS 25.401.**

Clauses affected: **3.1**

Other specs affected:	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	25.401 v3.2.0 CR008, 25.433 v3.1.0 CR101
	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:

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

Elementary Procedure: RNSAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between two RNCs. An EP consists of an initiating message and possibly a response message. Two kinds of EPs are used:

- **Class 1:** Elementary Procedures with response (success or failure);
- **Class 2:** Elementary Procedures without response.

For Class 1 EPs, the types of responses can be as follows:

Successful

- A signalling message explicitly indicates that the elementary procedure successfully completed with the receipt of the response.

Unsuccessful

- A signalling message explicitly indicates that the EP failed.
- On time supervision expiry (i.e. absence of expected response). Whether or not any Class 1 procedure will have a timer on RNSAP is FFS. To be sorted out when discussing the details of the error cases.

Class 2 EPs are considered always successful.

Prepared Reconfiguration: Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist any more after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed.

~~**Radio Link Set:** set of one or more Radio Links that has a common generation of Transmit Power Control (TPC) commands in the DL.~~

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.423	CR 88	Current Version: 3.1.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: TSG RAN #8 <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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

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

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

Subject: RNSAP Range Bounds, FDD parts

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

(only one category shall be marked with an X)

Reason for change: This Change Request defines the upper bounds on the range bounds in RNSAP. The CR is a result of the agreements on Tdoc R3-00125.

Clauses affected: 9.1.36, 9.2.1.11, 9.3.3, 9.3.6

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

Other comments:



help.doc

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

9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	ignore
FACH Info for S-CCPCH coupled to PRACH or PCPCH		1			YES	ignore
>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>MAC-c SDU Length		1..<MaxnoofMACcSDUlengthsperPriorityClass> <i>1..<MaxnoofMACcSDUlengthsperPriorityClass></i>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
FACH Info for optional S-CCPCH		0..1			YES	ignore
>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [7]	–	
>DL Scrambling Code	M				–	
>FDD DL Channelisation Code Number	M				–	
>TFCS	M			For the DL.	–	
>Secondary CCPCH Slot Format	M				–	
>MultiplexingPosition	M				–	
>STTD Indicator	M				–	
>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>MAC-c SDU Length		1..<MaxnoofMACcSDUlengthsperPriorityClass> <i>1..<MaxnoofMACcSDUlengthsperPriorityClass></i>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
Transport Layer Address	O				YES	ignore
Binding Identity	O				YES	ignore
Criticality Diagnostics	O				YES	ignore

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

9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	ignore
FACH Info for S-CCPCHs coupled to PRACH		1			YES	ignore
>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>>MAC-c SDU Length		1..< MaxnoofMACcSDUlengthsperPriorityMaxNbMACcSDULength >			GLOBAL	ignore
>>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
FACH Info for optional group of S-CCPCHs		0..1			YES	ignore
>TFCS	M			For DL CCTrCH supporting several Secondary CCPCHs	–	
>Secondary CCPCH	M	1..< MaxnoofS CCPCHs >			GLOBAL	ignore
>>TDD Channelisation Code	M				–	
>>Time Slot	M				–	
>>Burst Type	M				–	
>>Midamble shift	M				–	
>>TDD Physical Channel Offset	M				–	
>>Repetition Period	M				–	
>>Repetition Length	M				–	
>>>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>>>FACH Priority Indicator	M				–	
>>>>>MAC-c SDU Length		1..< MaxnoofMACcSDUlengthsperPriorityMaxNbMACcSDULength >			GLOBAL	ignore
>>>>>>MAC-c SDU Length	M				–	
>>>>FACH Initial Window Size	M				–	
>>>>Transport Layer	O				YES	ignore

Address						
>>>Binding Identity	O				YES	ignore
Criticality Diagnostics	O				YES	ignore

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

9.2.1.11 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		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 IE as defined in the ASN.1 part of the specification.
>Repetition Number	O		INTEGER (0..255)	The repetition number of the not understood IE if applicable

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

9.3.3 PDU Definitions

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

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

BEGIN

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

IMPORTS
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    CFNOffset,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CompressedModeMethod,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-CombinationInd,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-FrameType,
    DL-Power,
    DL-ScramblingCode,
```

DPCHConstantValue,
DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
FACH-InitialWindowSize,
FACH-PriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FrameHandlingPriority,
FrameOffset,
GapPeriod,
GapPositionMode,
IB-SG-POS,
IB-SG-REP,
IMSI,
L3-Information,
LimitedPowerIncrease,
MAC-c-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
PD,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerControlMode,
PowerOffset,
PowerResumeMode,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RANAP-RelocationInformation,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,

```
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
ScaledMaxAdjustmentPeriod,
ScaledMaxAdjustmentStep,
ScramblingCodeChange,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TGD,
TGL,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DeltaSIR,
UL-DeltaSIRAfter,
UL-DL-CompressedModeSelection,
UL-DPCCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID
FROM RNSAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{}
```

```
ProtocolIE-ContainerList {},
ProtocolIE-ContainerPair {},
ProtocolIE-ContainerPairList {},
ProtocolIE-Container {},
RNSAP-PRIVATE-IES,
RNSAP-PROTOCOL-EXTENSION,
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers
```

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

```
id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRL-SetItem-DM-Rprt,
id-AllRL-SetItem-DM-Rsp,
id-AllowedQueuingTime,
id-BindingID,
id-C-ID,
id-C-RNTI,
id-CFN,
id-CN-CS-DomainIdentifier,
id-CN-PS-DomainIdentifier,
id-Cause,
id-CellItem-PagingRqst,
id-CM-PatternInformationItem-CompressedModePrep,
id-CM-PatternInformationList-CompressedModePrep,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CriticalityDiagnostics,
id-D-RNTI,
```

id-D-RNTI-ReleaseIndication,
id-DCH-AddListIE-RL-ReconfReadyFDD,
id-DCH-AddListIE-RL-ReconfReadyTDD,
id-DCH-AddListIE-RL-ReconfRsp,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRqstTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-Information-RL-SetupRqstFDD,
id-DCH-InformationList-RL-SetupRqstTDD,
id-DCH-ModifyListIE-RL-ReconfReadyFDD,
id-DCH-ModifyListIE-RL-ReconfReadyTDD,
id-DCH-ModifyListIE-RL-ReconfRsp,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfRqstFDD,
id-DCH-ModifyList-RL-ReconfRqstTDD,
id-DCH-InformationResponseListIE-RL-SetupRspTDD,
id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
id-DL-CodeInformationListIE-RL-AdditionRspFDD,
id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
id-DL-CodeInformationListIE-RL-SetupFailureFDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-SetupRqstFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
id-DL-DPCH-InformationItem-RL-SetupRspTDD,
id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD,
id-DL-SIRTarget,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rqst,
id-DL-ReferencePowerInformation-DL-PC-Rqst,
id-DRXCycleLengthCoefficient,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,

id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DiversityIndicationItem-RL-AdditionFailureFDD,
id-DiversityIndicationItem-RL-AdditionRspFDD,
id-DiversityIndicationItem-RL-AdditionRspTDD,
id-DiversityIndicationItem-RL-SetupFailureFDD,
id-DiversityIndicationItem-RL-SetupRspFDD,
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForOptionals-CCPCH-CTCH-ResourceRspTDD,
id-FACH-InfoForS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD,
id-IMSI,
id-L3-Information,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
id-MaxAdjustmentPeriod,
id-MaxAdjustmentStep,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MultipleURAsIndicator,
id-NeighbouringFDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringFDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringFDD-CellInformationItem-RL-SetupRsp,
id-NeighbouringTDD-CellInformationItem-RL-AdditionFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-AdditionRsp,
id-NeighbouringTDD-CellInformationItem-RL-SetupFailureFDD,
id-NeighbouringTDD-CellInformationItem-RL-SetupRsp,
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
id-Neighbouring-CellInformationItem-RL-SetupRsp,
id-NonCombiningItem-RL-AdditionFailureFDD,
id-NonCombiningItem-RL-AdditionRspFDD,
id-NonCombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD,
id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD,
id-PagingArea-PagingRqst,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
id-PowerAdjustmentType,
id-ProcedureScope-DL-PC-Rqst,
id-RANAP-RelocationInformation,
id-RL-Information-PhyChReconfRqstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRqstFDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-DeletionRqst,
id-RL-Information-RL-FailureInd,

id-RL-Information-RL-ReconfPrepFDD,
id-RL-Information-RL-RestoreInd,
id-RL-Information-RL-SetupRqstFDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRqstFDD,
id-RL-InformationList-RL-DeletionRqst,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-ReconfReadyTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,
id-RLItem-DM-Rprt,
id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-ReconfigurationFailureList-RL-ReconfFail,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-Information-RL-FailureInd,
id-RL-Set-Information-RL-RestoreInd,
id-RL-SetItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-SetItem-DM-Rsp,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-S-RNTI,
id-SAI,
id-SRNC-ID,
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-TransportBearerID,
id-TransportBearerRequestIndicator,
id-TransportLayerAddress,
id-UC-ID,

```

id-UL-CCTrCH-Information-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD
FROM RNSAP-Constants;

```

```

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

```

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

```

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

```

```

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

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

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs           MaxNrOfUL-DPCHs          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 -- ,
    ul-PunctureLimit          PunctureLimit,
    ul-TFCS                    TFCS,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat,
    ul-SIRTarget               UL-SIR          OPTIONAL,
    diversityMode              DiversityMode,
    d-FieldLength              D-FieldLength          OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellIdLength          SSDT-CellID-Length     OPTIONAL,
    s-FieldLength              S-FieldLength          OPTIONAL,
    IE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                        TFCS,
    dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
    tFCI-SignallingMode         TFCI-SignallingMode,
    tFCI-Presence                TFCI-Presence          OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 -- ,
    multiplexingPosition         MultiplexingPosition,
    powerOffsetInformation       SEQUENCE {
        po1-ForTFCI-Bits         PowerOffset,
        po2-ForTPC-Bits          PowerOffset,
        po3-ForPilotBits         PowerOffset,
        ...
    }
}

```

```

    },
    fdd-dl-TPC-DownlinkStepSize      FDD-TPC-DownlinkStepSize,
    iE-Extensions                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    dCH-CombinationInd                DCH-CombinationInd      OPTIONAL,
    limitedPowerIncrease              LimitedPowerIncrease,
    trCH-SrcStatisticsDescr           TrCH-SrcStatisticsDescr,
    ul-transportFormatSet             TransportFormatSet,
    dl-transportFormatSet             TransportFormatSet,
    ul-BLER                           BLER,
    dl-BLER                           BLER,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
    payloadCRC-PresenceIndicator       PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    qE-Selector                       QE-Selector,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dRACControl                       DRACControl,
    iE-Extensions                    ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

RL-InformationList-RL-SetupRqstFDD      ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

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

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                            RL-ID,
    c-ID                             C-ID,
    frameOffset                       FrameOffset,
    chipOffset                        ChipOffset,
    propagationDelay                  PropagationDelay      OPTIONAL,
    diversityControlField              DiversityControlField  OPTIONAL
}

```

```

-- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
dl-InitialTX-Power          DL-Power          OPTIONAL,
primaryCPICH-EcNo          PrimaryCPICH-EcNo  OPTIONAL,
sSDT-CellID                SSDT-CellID      OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions              ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  cCCTrCH-ID          CCTrCH-ID,
  ul-TFCS              TFCS,

```

```

    tFCI-Coding          TFCI-Coding,
    ul-PunctureLimit     PunctureLimit,
    iE-Extensions        ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID          DCH-ID,
    ul-cCTrCH-ID    CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID    CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    dCH-CombinationInd DCH-CombinationInd    OPTIONAL,
    limitedPowerIncrease LimitedPowerIncrease,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-transportFormatSet TransportFormatSet,
    dl-transportFormatSet TransportFormatSet,
    ul-BLER          BLER,
    dl-BLER          BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode       UL-FP-Mode,
    toAWS            ToAWS,
    toAWE            ToAWE,
    iE-Extensions    ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
}

```

```

}
...
}
DCH-InformationItem-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
rL-ID RL-ID,
c-ID C-ID,
frameOffset FrameOffset,
primaryCCPCH-RSCP PrimaryCCPCH-RSCP OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
RL-Information-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RadioLinkSetupRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

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

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

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
{ ID id-RL-InformationResponseItem-RL-SetupRspFDD

```

```

    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  sAI                  SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-SetupRspFDD OPTIONAL,
  dl-CodeInformationList-RL-SetupRspFDD,
  diversityIndication DiversityIndication-RL-SetupRspFDD,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  maxUL-SIR            UL-SIR,
  minUL-SIR            UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

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

```



```

}

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

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

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

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

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

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

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

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    iE-Extensions            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrIENotPresent NonCombiningOrIENotPresen-RL-SetupRspFDD,
}

```

```

}
...
}
Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}
CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}
CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions  ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
NonCombiningOrIENotPresen-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPresenIE-RL-SetupRspFDD }}
NonCombiningOrIENotPresenIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrIENotPresenItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE NonCombiningOrIENotPresenItem-RL-SetupRspFDD PRESENCE
    mandatory },
  ...
}
NonCombiningOrIENotPresenItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-InformationResponse-RL-SetupRspFDD  DCH-InformationResponseList-RL-SetupRspFDD  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { NonCombiningOrIENotPresenItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}
NonCombiningOrIENotPresenItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD
DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}
DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

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

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

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

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

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

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

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

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

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
 c-ID C-ID,
 uARFCNforNt UARFCN,
 ...
 }

```

    frameOffset                FrameOffset                OPTIONAL,
    cellParameterID            CellParameterID,
    syncCase                    SyncCase,
    timeSlot                    TimeSlot                OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot                SCH-TimeSlot            OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    cellIndividualOffset        CellIndividualOffset    OPTIONAL,
    dPCHConstantValue          DPCHConstantValue    OPTIONAL,
    pCCPCH-Power                PCCPCH-Power            OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                   SAI,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR             UL-SIR,
    minUL-SIR             UL-SIR,

```

```

maximumAllowedULTxPower      MaximumAllowedULTxPower,
ul-CCTrCHInformation          UL-CCTrCHInformationList-RL-SetupRspTDD,
dl-CCTrCHInformation          DL-CCTrCHInformationList-RL-SetupRspTDD,
dCH-InformationResponse       DCH-InformationResponseList-RL-SetupRspTDD,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
-- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
iE-Extensions                 ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,

```

```

burstType          BurstType,
midambleShift      MidambleShift,
timeSlot           TimeSlot,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod   RepetitionPeriod,
repetitionLength   RepetitionLength,
tFCI-Presence      TFCI-Presence,
iE-Extensions      ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-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 ::= {
...
}

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-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD  CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponseList-RL-
SetupFailureFDD  PRESENCE mandatory } |
  { ID id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD  CRITICALITY ignore TYPE SuccessfulRL-InformationResponseList-RL-
SetupFailureFDD  PRESENCE optional } |
  { ID id-UL-SIRTarget          CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
  { ID id-DL-SIRTarget          CRITICALITY ignore TYPE DL-SIRTarget          PRESENCE optional } |
  { ID id-CriticalityDiagnostics  CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

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

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

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

SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList0-1 { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

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

SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  rL-Set-ID      RL-Set-ID,
  SAI            SAI,
  ul-InterferenceLevel  UL-InterferenceLevel,
  dl-CodeInformation  DL-CodeInformationList-RL-SetupFailureFDD,

```



```

diversityIndication          DiversityIndication-RL-SetupFailureFDD,
sSDT-SupportIndicator        SSDT-SupportIndicator,
maxUL-SIR                    UL-SIR,
minUL-SIR                    UL-SIR,
maximumAllowedULTxPower     MaximumAllowedULTxPower,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
iE-Extensions                ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
  combining                  Combining-RL-SetupFailureFDD,
  nonCombiningOrIENotPresent NonCombiningOrIENotPresen-RL-SetupFailureFDD,
  ...
}

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

```

```

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

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

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

NonCombiningOrIENotPresen-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrIENotPresenIE-RL-SetupFailureFDD }}

NonCombiningOrIENotPresenIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrIENotPresenItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE NonCombiningOrIENotPresenItem-RL-SetupFailureFDD  PRESENCE
  mandatory },
  ...
}

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

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

DCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupFailureFDD

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

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

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

Neighbouring-CellInformationItemIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-Neighbouring-CellInformationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Neighbouring-CellInformationItem-RL-SetupFailureFDD
  PRESENCE mandatory },
  ...
}

```

```

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

```

```

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

```

```

| Per-FDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNCmax)) OF Per-FDD-Cell-InformationItem-RL-SetupFailureFDD

```

```

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

```

```

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

```

```

| Per-TDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNCmax)) OF Per-TDD-Cell-InformationItem-RL-SetupFailureFDD

```

```

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNt UARFCN,
  frameOffset FrameOffset OPTIONAL,
  cellParameterID CellParameterID,
  syncCase SyncCase,
}

```

```

timeSlot                TimeSlot                OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot            SCH-TimeSlot            OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
cellIndividualOffset    CellIndividualOffset    OPTIONAL,
dPCHConstantValue       DPCHConstantValue     OPTIONAL,
pCCPCH-Power            PCCPCH-Power,
iE-Extensions           ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

```

```

}
...
}
-- *****
--
-- RADIO LINK ADDITION REQUEST FDD
--
-- *****

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

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

RL-InformationList-RL-AdditionRqstFDD ::= RL-IE-ContainerList1-1 { {RL-Information-RL-AdditionRqstFDD-IEs} }

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

RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    c-ID                 C-ID,
    frameOffset          FrameOffset,
    chipOffset           ChipOffset,
    diversityControlField DiversityControlField,
    primaryCPICH-EcNo    PrimaryCPICH-EcNo    OPTIONAL,
    sSDT-CellID          SSdT-CellID        OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator    OPTIONAL,
    -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions       ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

-- *****

```

```

--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

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

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

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

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

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

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

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

RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore    TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory    }
    |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore    TYPE CriticalityDiagnostics          PRESENCE optional    },
    ...
}

```

```

}

RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

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

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID RL-ID,
  rL-Set-ID RL-Set-ID,
  sAI SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-AdditionRspFDD OPTIONAL,
  dl-CodeInformation DL-CodeInformationList-RL-AdditionRspFDD,
  diversityIndication DiversityIndication-RL-AdditionRspFDD,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  minUL-SIR UL-SIR,
  maxUL-SIR UL-SIR,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    iE-Extensions                ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

```



```

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

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

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

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

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 OPTIONAL,
    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 -- ,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    dPCHConstantValue DPCHConstantValue    OPTIONAL,
    pCCPCH-Power       PCCPCH-Power,
    iE-Extensions      ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    ul-InteferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-NonCombiningItem-RL-AdditionRspTDD CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspTDD PRESENCE mandatory },
    ...
}
NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspFDD DCH-InformationResponseList-RL-AdditionRspFDD,
    iE-Extensions ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

Per-FDD-Cell-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    c-ID C-ID,
    uARFCNforNu UARFCN,
    uARFCNforNd UARFCN,
    frameOffset FrameOffset OPTIONAL,

```

```

primaryScramblingCode      PrimaryScramblingCode,
primaryCPICH-Power         PrimaryCPICH-Power      OPTIONAL,
cellIndividualOffset       CellIndividualOffset    OPTIONAL,
txDiversityIndicator       TxDiversityIndicator    OPTIONAL,
sTTD-SupportIndicator      STTD-SupportIndicator   OPTIONAL,
closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
...
}

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

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

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

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

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

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

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

```



```

}
...
}

RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD
    CRITICALITY ignore TYPE UnsuccessfulRL-InformationResponseList-RL-
    AdditionFailureFDD PRESENCE mandatory } |
  { ID id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD
    CRITICALITY ignore TYPE SuccessfulRL-InformationResponseList-RL-
    AdditionFailureFDD PRESENCE optional } |
  { ID id-CriticalityDiagnostics
    CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

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

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

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

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber   FDD-DL-ChannelisationCodeNumber,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

}
...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

<CR editor note: Rest of Clause 9.3.3 intentionally not included in this CR. This CR has no changes on rest of 9.3.3>

9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

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

BEGIN

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

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD          INTEGER ::= 1
id-commonTransportChannelResourcesRelease                INTEGER ::= 2
id-compressedModeCancellationFDD                        INTEGER ::= 3
id-compressedModeCommitFDD                              INTEGER ::= 4
id-compressedModePrepareFDD                             INTEGER ::= 5
id-downlinkPowerControl                                 INTEGER ::= 6
id-downlinkSignallingTransfer                            INTEGER ::= 7
id-errorIndication                                      INTEGER ::= 8
id-measurementFailure                                   INTEGER ::= 9
id-measurementInitiation                                INTEGER ::= 10
id-measurementReporting                                  INTEGER ::= 11
id-measurementTermination                               INTEGER ::= 12
id-pagingRequest                                        INTEGER ::= 13
id-physicalChannelReconfiguration                       INTEGER ::= 14
id-privateMessage                                       INTEGER ::= 15
id-radioLinkAddition                                    INTEGER ::= 16
id-radioLinkDeletion                                    INTEGER ::= 17
id-radioLinkFailure                                     INTEGER ::= 18
id-radioLinkRestoration                                 INTEGER ::= 19
id-radioLinkSetup                                       INTEGER ::= 20
id-srnsRelocationCommit                                 INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation      INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit           INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare         INTEGER ::= 24
id-unSynchronisedRadioLinkReconfiguration              INTEGER ::= 25
id-uplinkSignallingTransfer                             INTEGER ::= 26

-- *****
--
-- Extension constants

```

```

--
-- *****
maxPrivateIEs                INTEGER ::= 65535
maxProtocolExtensions        INTEGER ::= 65535
maxProtocolIEs               INTEGER ::= 65535
-- *****
--
-- Lists
--
-- *****

maxRateMatching              INTEGER ::= 10
maxNrOfTFCs                  INTEGER ::= 10
maxNrOfTFs                   INTEGER ::= 10
maxNrOfCCTrCHs              INTEGER ::= 10
maxNrOfDCHs                  INTEGER ::= 12810
maxNrOfDL-Codes              INTEGER ::= 810
maxNrOfDPCHs                 INTEGER ::= 10
maxNrOfErrors                INTEGER ::= 25610
maxNrOfMACcSDU-Length        INTEGER ::= 810
maxNrOfRLs                   INTEGER ::= 1610
maxNrOfRLSets                INTEGER ::= maxNrOfRLs10
maxNrOfRLs-1                 INTEGER ::= maxNrOfRLs - 110
maxNrOfRLs-2                 INTEGER ::= maxNrOfRLs - 210
maxNrOfSCCPCHs               INTEGER ::= 10
maxNrOfULTs                  INTEGER ::= 15
maxNrOfCMPatterns            INTEGER ::= 8
maxRNCinURA                 INTEGER ::= 1610
maxTTI-Count                 INTEGER ::= 10
maxCTFC-1                    INTEGER ::= 10
maxNrOfNeighbouringRNCs      INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC   INTEGER ::= 25610
maxNrOfTDDNeighboursPerRNC  INTEGER ::= 25610
maxFACHCountPlus1            INTEGER ::= 10
maxIBSEG                     INTEGER ::= 16
-- *****
--
-- IEs
--
-- *****

```

<CR editor note: Rest of Clause 9.3.6 intentionally not included in this CR. This CR has no changes on rest of 9.3.6>

3GPP TAG RAN WG3 Meeting #12
Seoul, Korea, 10 - 13 April, 2000

Document R3-001193

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

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 092

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#8**

list expected approval meeting # here



for approval

for information

strategic (for SMG use only)

non-strategic

Form: CR cover sheet, version 2 for 3GPP and SMG

The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

April 13, 2000

Subject:

RNSAP range bounds, TDD part

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:

Range bounds for RNSAP messages are specified in the ASN.1 code. This CR includes those range bounds which apply exclusively to TDD.

Clauses affected:

9.3.4

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:

The ranges for FDD or applying to both modes may be found in another CR, in R3-001126.



help.doc

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


```

*****
--
-- Lists
--
*****

maxRateMatching                INTEGER ::= 10
maxNrOfTFCs                    INTEGER ::= 10
maxNrOfTFs                      INTEGER ::= 10
maxNrOfCCTrCHs                 INTEGER ::= 16 10
maxNrOfDCHs                     INTEGER ::= 10
maxNrOfDL-Codes                 INTEGER ::= 10
maxNrOfDPCHs                    INTEGER ::= 240 10
maxNrOfErrors                   INTEGER ::= 10
maxNrOfMACcSDU-Length           INTEGER ::= 10
maxNrOfRLLs                     INTEGER ::= 10
maxNrOfRLLSets                  INTEGER ::= 10
maxNrOfRLLs-1                   INTEGER ::= 10
maxNrOfRLLs-2                   INTEGER ::= 10
maxNrOfSCCPCHs                  INTEGER ::= 10
maxNrOfULTs                      INTEGER ::= 15
maxNrOfCMPatterns               INTEGER ::= 8
maxRNCinURA                     INTEGER ::= 10
maxTTI-Count                     INTEGER ::= 10
maxCTFC-1                        INTEGER ::= 10
maxNrOfNeighbouringRNCs         INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC      INTEGER ::= 10
maxNrOfTDDNeighboursPerRNC      INTEGER ::= 10
maxFACHCountPlus1               INTEGER ::= 10
maxIBSEG                         INTEGER ::= 16

-- *****

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

```

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 095

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**
 list expected approval meeting # here ↑

For approval for information

Strategic
 non-strategic (for SMG use only)

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

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

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

Subject: Handling of Closed Loop Timing Adjustment mode over RNSAP: additional failure cause

Work item:

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

Reason for change: In line with what is proposed on NBAP, the cause value "No Closed Loop Timing Adjustment Mode configured" is defined over RNSAP.

Clauses affected: 8.3.1.3., 8.3.2.3, 9.2.1.5, 9.3.4.

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

Other comments:

8.3.1.3 Unsuccessful Operation

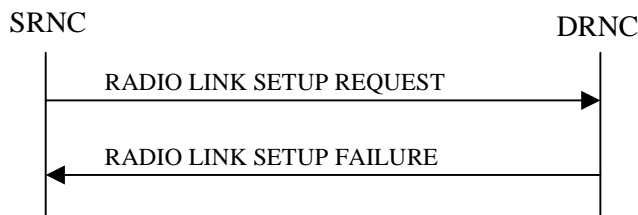


Figure 1: Radio Link Setup procedure: Unsuccessful Operation

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

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

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

Typical cause values are:

Radio Network Layer Causes:

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

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

- Transaction not Allowed

Miscellaneous Causes:

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

8.3.2.3 Unsuccessful Operation

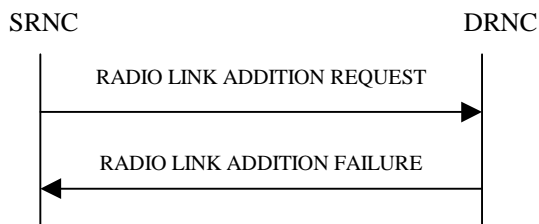


Figure 2: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall send a RADIO LINK ADDITION FAILURE as response.

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

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

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Macrodiversity Combining not Possible;
- Cell not Available;

- [FDD - No Closed Loop Timing Adjustment Mode configured];

- Power Level not Supported.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

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

9.2.1.5 Cause

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Macrodiversity Combining Not Possible, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, No Closed Loop Timing Adjustment Mode configured. Unspecified,...)	
> <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,...)	

```

-- 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,
    macrodiversity-combining-not-possible,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    no-closed-loop-timing-adjustment-mode-configured,
    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)

CFNOffset ::= 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
}

CodingRate ::= ENUMERATED {
    half,
    third
}

CompressedModeMethod ::= ENUMERATED {
    none,
    puncturing,
    half-SF,
    higher-Layer-Scheduling
}

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-1)

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)

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 096

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#8**
list expected approval meeting # here

for approval
for information

strategic
non-strategic (for SMG use only)

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

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

Source: R-WG3 **Date:** April 12, 2000

Subject: Out-of-sync handling in DRNC

Work item:

Category:	F Correction	<input type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
<small>(only one category shall be marked with an X)</small>	B Addition of feature	<input checked="" 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: This documents provides text in the procedure description to describr the behaviour of DRNC in respect to Out-of-Sync parameters.

Clauses affected: 8.3.2.2, 8.3.3.2

Other specs affected:	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	R1-000372, R1-000365
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments:

8.3.2 Radio Link Addition

8.3.2.1 General

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

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

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

8.3.2.2 Successful Operation

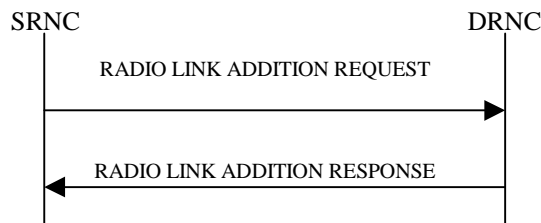


Figure 17: Radio Link Addition procedure: Successful Operation

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

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

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

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

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT may be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

The DRNS shall activate any feedback mode diversity according to the received settings.

If all requested RLs are successfully added, the DRNC shall respond with a RADIO LINK ADDITION RESPONSE message.

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

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

In the case of combining an RL with existing RL(s) the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the DRNC shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the co-ordinated DCHs.

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

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the Primary Scrambling Code and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value], Frame Offset of the neighbouring cell, Tx diversity indicator [FDD], and Tx diversity capability[FDD] (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*).

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

The DRNC shall also provide the selected scrambling and channelisation codes of the new RLs in order to enable the SRNC to inform the UE about the selected codes.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].

[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control IE* was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info IE* to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC cells supporting the radio links of the RL Set.]

8.3.3 Radio Link Deletion

8.3.3.1 General

The Radio Link Deletion procedure is used to release the resources in a DRNS for one or more established radio links towards a UE.

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

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

8.3.3.2 Successful Operation

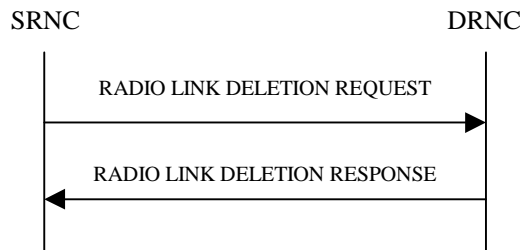


Figure 29: Radio Link Deletion procedure, Successful Operation

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

Upon receipt of this message, the DRNS shall delete the radio link(s) identified in the message and release all associated resources and respond to the SRNC with a RADIO LINK DELETION RESPONSE message.

If the radio link(s) to be deleted represent the last radio link(s) for the UE in the DRNS then the DRNC shall also release the UE context, unless the UE is using common resources in the DRNS.

[FDD – After deletion of the RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

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	107	Current Version: 3.1.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: RAN#8	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:** 2000-05-08

Subject: Clarification that Basic PER is used.

Work item:

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

Reason for change: There are two variants of PER described in the indicated ref. [20], Basic and Canonical. It should be clarified that Basic PER is used for RNSAP.

Clauses affected: 9.4

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.

9.4 Message Transfer Syntax

RNSAP shall use the ASN.1 [Basic](#) Packed Encoding Rules ([BASIC-PER](#)) Aligned Variant as transfer syntax as specified in ref. [20].

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 111

Current Version: **3.1.0.**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**
 list expected approval meeting # here ↑

for approval
 for information

Strategic
 non-strategic (for SMG use only)

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

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

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

Subject: Handling of Presence field

Work item:

Category: F Correction **Release:** Phase 2
 A Corresponds to a correction in an earlier release Release 96
 B Addition of feature Release 97
 C Functional modification of feature Release 98
 D Editorial modification Release 99
 Release 00

(only one category shall be marked with an X)

Reason for change: In the tabular format and in the ASN.1, for many IE's and IE groups a "presence" is specified. Currently no behaviour related to this presence is indicated.
 This contribution proposes to handle the absence of an IE/IE-group that should have been present according to the presence field in the corresponding object as an abstract syntax error.
 The proposed handling is aligned with the criticality information specified for the concerning IE/IE-group, since mandatory rejection would disable the possibility of ever removing an IE/IE-group in a backward compatible way.

Clauses affected: 9.2.1.11, 10.3.

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: Similar contributions are provided for the other application protocols.

9.2.1.11 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		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 (0..255)	The repetition number of the not understood IE if applicable

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

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. ~~The abstract syntax error also appears if~~ receives IEs for which the logical range of an IE 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.-~~

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.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error 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.

10.3.2 ~~Definition of~~ 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~~3~~.

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

~~If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error act according to the Criticality Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclause 10.3.3.~~

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.

~~10.3.2~~ 10.3.4 Not comprehended IE/IE group

~~10.3.3~~ Handling of the Criticality Information at Reception

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 ~~only~~ 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 only 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.

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 CR112		Current Version: 3.1.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN #8 <small>list expected approval meeting # here</small>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

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

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

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

Subject: Basic RNSAP Protocol Robustness

Work item:

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input checked="" 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:

In the current RNSAP specification there are no procedure timers defined. Further more, the procedure parallelism is quite restricted. This may under some circumstances lead to hangings, e.g. if there the DRNC receives no RL RECONFIGURATION COMMIT or RL RECONFIGURATION CANCEL message when a reconfiguration has been prepared there may be hanging resources in the DRNS. Further more, if this situation is due to a RL RECONFIGURATION COMMIT or RL RECONFIGURATION CANCEL message being "lost" (not in the transport layer) the DRNC may ignore any message not allowed while a Prepared reconfiguration exists since it still waits for a RL RECONFIGURATION COMMIT or RL RECONFIGURATION CANCEL message.

To ensure that it is always possible for the SRNC to "get out of" such situations (no matter how strange) it is proposed to allow the RL Deletion procedure under any circumstance.

Clauses affected: 8.3.3.1

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	TS 25.433 CR131
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Other comments:

8.3.3 Radio Link Deletion

8.3.3.1 General

The Radio Link Deletion procedure is used to release the resources in a DRNS for one or more established radio links towards a UE.

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

The Radio Link Deletion procedure may be initiated by the SRNC at any time after establishing a Radio Link~~shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.~~

8.3.3.2 Successful Operation

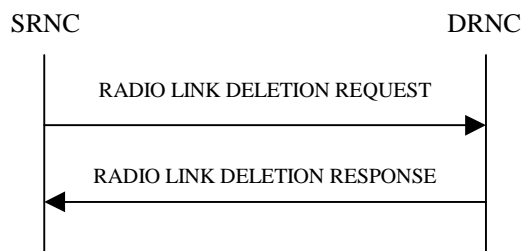


Figure 1: Radio Link Deletion procedure, Successful Operation

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

Upon receipt of this message, the DRNS shall delete the radio link(s) identified in the message and release all associated resources and respond to the SRNC with a RADIO LINK DELETION RESPONSE message.

If the radio link(s) to be deleted represent the last radio link(s) for the UE in the DRNS then the DRNC shall also release the UE context, unless the UE is using common resources in the DRNS.

8.3.3.3 Unsuccessful Operation

-

8.3.3.4 Abnormal Conditions

-

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 114

Current Version: **3.1.0**

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

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #8**

list expected approval meeting # here



for approval

for information

strategic

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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:

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

Source: R-WG3

Date: May 2000

Subject: Addition of new step sizes alternatives for FDD DL power adjustment.

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 order to align with L1 (25.214 CR 090) new step size values of 1.5 dB and 2 dB in addition to the existing 0.5 dB and 1 dB are defined for Information Element FDD TPC DL step size. Similar CR is issued also to NBAP Specification.

Clauses affected: 9.2.2.11, 9.3.4

Other specs affected:

Other 3G core specifications

→ List of CRs:

Other GSM core specifications

→ List of CRs:

MS test specifications

→ List of CRs:

BSS test specifications

→ List of CRs:

O&M specifications

→ List of CRs:

Other comments:

9.2.2.11 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink step size			ENUMERATED (0.5, 1.1.5.2)	

```
-- F

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

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

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

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
  step-size0-5,
  step-size1,
  step-size1-5,
  step-size2,
  ...
}
```


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 CR115		Current Version: 3.1.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN #8	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)
<i>list expected approval meeting # here</i> ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

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

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

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

Subject: Correction of reference handling and some other editorial issues

Work item:

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input checked="" type="checkbox"/>	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:

The scope of this CR is:

a) to ensure that all references in the specification are made to the numbered references in the reference list in chapter 2.

b) to correct some editorial detected during review of the CR implementation of CRs on v3.0.0.

All references have been corrected to be references to the numbered reference in the list of references (chapter 2). This required some new references to be added to the list of references

This CR contains the follow editorial corrections:

- Chapter 9.2.1.21: Correction of paragraph format and heading (paragraph format incorrect in CR13).
- Chapter 9.2.1.66: Correction of paragraph style (paragraph style incorrect in CR37r1).
- Chapter 9.2.1.69: Correction of paragraph style (paragraph style incorrect in CR6).
- Chapter 9.2.1.70: Correction of paragraph style (paragraph style incorrect in CR13).
- Chapter 9.3.4: Some IEs were not placed in correct alphabetic order.
- Some minor editorial corrections (not listed explicitly).

Clauses affected: 2, 8.2.4.2, 8.3.1.2, 8.3.4.2, 8.3.7.2, 8.3.9.2, 8.3.10.2, 9.1.4, 9.1.5.1, 9.1.7, 9.1.8.1, 9.2.1.16, 9.2.1.17, 9.2.1.21, 9.2.1.53, 9.2.1.55, 9.2.1.66, 9.2.1.67, 9.2.1.69, 9.2.1.70, 9.2.2.39, 9.2.2.40, 9.2.2.51, 9.2.2.52, 9.2.3.5, and 9.3.4.

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

→ List of CRs:

**Other
comments:**

<----- [double-click here for help and instructions on how to create a CR.](#)

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] 3G TS 23.003: "Numbering, addressing and identification".
- [2] 3G TS 25.413: "UTRAN Iu Interface RANAP Signalling".
- [3] 3G TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Layer Signalling for DCH Data Streams".
- [4] 3G TS 25.427: "UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams".
- [5] 3G TS xx.yyy: "Specification containing different Identifiers for UMTS (to be identified)".
- [6] 3G TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception"
- [7] 3G TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
- [8] 3G TS 25.211: "Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD)".
- [9] 3G TS 25.212: "Multiplexing and Channel Coding (FDD)
- [10] UMTS 25.214: "Physical Layer Procedures (FDD)".
- [11] 3G TS 25.215: "Physical Layer – Measurements (FDD)".
- [12] 3G TS 25.221: "Physical Channels and Mapping of Transport Channels onto Physical Channels (TDD)".
- [13] 3G TS 25.223: "Spreading and Modulation (TDD)".
- [14] 3G TS 25.225: "Physical Layer – Measurements (TDD)".
- [15] 3G TS 25.304: "UE Procedures in Idle Mode"
- [16] 3G TS 25.331: "RRC Protocol Specification".
- [17] 3G TS 25.402: "Synchronisation in UTRAN, Stage 2".
- [18] X.680 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [19] ITU-T Recommendation X.681 (12/94): "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [20] ITU-T Recommendation X.691 (12/94): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER)".
- [21] [3G TS 25.213: " Spreading and modulation \(FDD\)"](#)
- [22] [3G TS 25.224: " Physical Layer Procedures \(TDD\)"](#)

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

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

8.2.4.2 Successful Operation



Figure 1: Paging procedure, Successful Operation

The procedure is initiated with a PAGING REQUEST message sent from the SRNC to the CRNC.

If the message contains the *C-Id* IE, the CRNC shall page in the indicated cell. Alternatively, if the message contains the *URA-Id* IE, the CRNC shall page in all cells that it controls in the indicated URA.

The CRNC shall calculate the Paging Occasions from the *IMSI* IE and the *DRX Cycle Length Coefficient* IE according to specification in ref. [15] and apply transmission on PICH and PCH accordingly.

8.3.1.2 Successful Operation

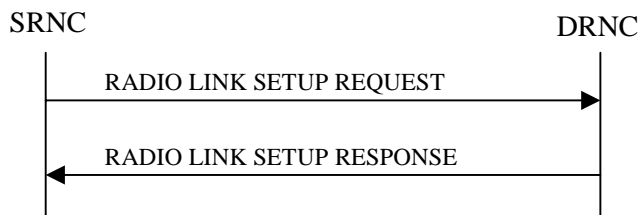


Figure 2: Radio Link Setup procedure: Successful Operation

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

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

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

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

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

If the *Primary CPICH Ec/No* IE [FDD] or the *Primary CCPCH RSCP* IE [TDD] is present, the DRNC should use them when deciding the Initial DL TX Power.

If the RADIO LINK SETUP REQUEST message includes the *DCH Combination Indicator* IE for a DCH, the DRNS shall treat all DCHs with the same value of this IE as a set of co-ordinated DCHs.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.4274].]

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.4274]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.4274].]

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

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH as the new DCH FP Mode in the Uplink of the user plane for this DCH.

The DRNS shall use the included *ToAWS* IE for a DCH as the new Time of Arrival Window Start Point in the user plane for this DCH.

The DRNS shall use the included *ToAWE* IE for a DCH as the new Time of Arrival Window End Point in the user plane for this DCH.

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

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

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

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

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

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

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

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

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

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

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

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC, CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx diversity indicator* and Tx diversity capability (i.e. *STTD Support Indicator*, *Closed Loop mode1 Support Indicator*, and *Closed Loop mode2 Support Indicator*) in Neighbouring FDD Cell Information].

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

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

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

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

8.3.4.2 Successful Operation

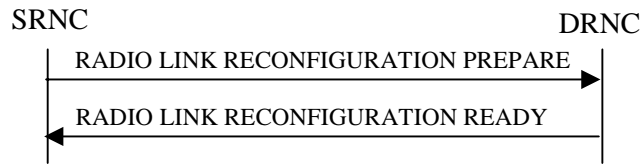


Figure 3: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

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

DCH Addition:

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and
2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If the QE-Selector is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.4274]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.4274]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.4274]].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Spreading Factor of Channelisation Code (DL)* IE, for each *Spreading Factor of Channelisation Code (DL)* IE the DRNS shall allocate one new Downlink Channelisation Code per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a *Channelisation Code (DL)* IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC.]

The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

[TDD – The DRNC shall include all the IEs corresponding to the new physical channel resources for the DL DPCH and/or the UL DPCH to be reconfigured in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

SSDT Activation/Deactivation:

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

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

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

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

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

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

8.3.7.2 Successful Operation

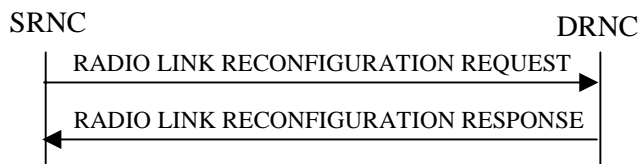


Figure 4: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

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

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

DCH Modification:

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

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

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *UL FP Mode* IE for a DCH to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWS* IE for a DCH to be modified, the DRNS shall apply the new ToAWS in the user plane for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *ToAWE* IE for a DCH to be modified, the DRNS shall apply the new ToAWE in the user plane for this DCH in the new configuration.

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

DCH Addition:

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

If the RADIO LINK RECONFIGURATION REQUEST message includes the *DCH Combination Indicator* IE for a DCH to be added, the DRNS shall:

1. treat all DCHs with the same value of this IE as a set of co-ordinated DCHs; and

2. include this DCH in the new configuration only if it can include all DCHs with the same value of the *DCH Combination Indicator* IE in the new configuration.

[FDD - For DCHs with a unique or no "DCH Combination Ind" and the *QE-Selector* IE set to "selected DCH", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If the *QE-Selector* is set to "non-selected DCH", the Physical channel BER shall be used for the QE in the UL data frames, ref. [25.4274]].

[FDD - For DCHs with the same "DCH Combination Ind" the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected DCH" shall be used for the QE in the UL data frames, ref. [25.4274]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [25.4274]. If all DCHs have *QE-Selector* IE set to "non-selected DCH" the Physical channel BER shall be used for the QE, ref. [25.4274]].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH to be added as the new FP Mode in the Uplink of the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH to be added as the new Time of Arrival Window Start Point in the user plane for this DCH in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH to be added as the new Time of Arrival Window End Point in the user plane for this DCH in the new configuration.

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

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

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

Physical Channel Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the DRNS shall apply the new TFCS in the Uplink of [TDD – the CCTrCH of] the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of [TDD – the CCTrCH of] the new configuration.

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

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

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

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

8.3.9.2 Successful Operation

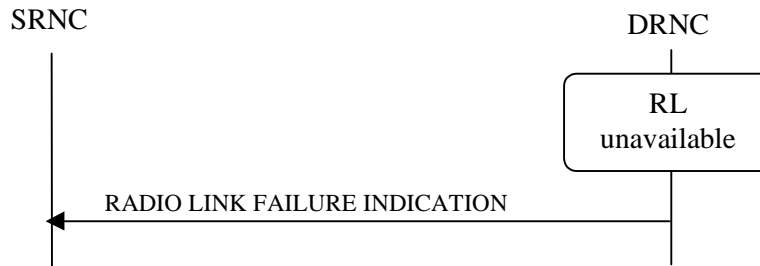


Figure 5: RL Failure procedure, Successful Operation

When DRNC detects that a one or more Radio Links or Radio Link Sets are no longer available, it shall send the *RL FAILURE INDICATION* message to the SRNC. The message indicates the failed Radio Links or Radio Link Sets with the most appropriate cause values defined in the *Cause* IE. If the failure concerns one or more individual Radio Links the DRNS shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the DRNS shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

[FDD - When the RL Failure procedure is used to notify loss of UL synchronisation: the message shall be sent when indicated by the UL sync detection algorithm defined in [ref. \[TS25.214\]10](#) and [TS25.224](#)[22].

[TDD - When the RL Failure procedure is used to notify the non achievement or loss of UL synchronisation: the message shall be sent when the UL synchronisation of newly established Radio Link is not achieved after any of the procedures RL Setup or RL Addition. The message shall also be sent if the UL synchronisation it is lost during an active connection.]

Typical cause values are:

Radio Network Layer Causes:

- Synchronisation Failure.

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- O&M Intervention.

8.3.10.2 Successful Operation

**Figure 6: RL Restoration procedure, Successful Operation**

The DRNC shall send the RADIO LINK RESTORE INDICATION message to the SRNC when indicated by the UL sync detection algorithm defined in [ref. \[TS25.214\]10](#) and [TS25.224\]22](#).

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG REP	M				–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
> DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	C-NotFirstRL				–	
>CHOICE <i>diversity Indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M			Reference RL ID for the	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				combining		
>>Non Combining or IE not present				"IE not present" is equivalent to "First RL".	YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>SSDT Support Indicator	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>Neighbouring Cell Information		0..<maxno of neighbourin gRNCs>			EACH	ignore
>> RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [TS25-1046]	–	
>>>UARFCN	M			Corresponds to Nd in ref. [TS25-1046]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		0..<maxno ofTDDneig hbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7] [TS25-105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	

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

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

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
D-RNTI	O				YES	ignore
CN PS Domain Identifier	O				YES	ignore
CN CS Domain Identifier	O				YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M				–	
>SAI	M				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M				–	
>>UL Interference Level	M				–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>UL CCTrCH Information		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
>>UL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>> DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
>DL CCTrCH Information		1..<maxno ofCCTrCHs>			GLOBAL	ignore
>>CCTrCH ID	M				–	
>>DL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	M				–	
>>>Burst Type	M				–	
>>>Midamble Shift	M				–	
>>>Time Slot	M				–	
>>>TDD Physical Channel Offset	M				–	
>>>Repetition Period	M				–	
>>>Repetition Length	M				–	
>>>TFCI Presence	M				–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighboringRNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		0..<maxno ofFDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [TS25.1046]	–	
>>>UARFCN	M			Corresponds to Nd in ref. [TS25.1046]		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Cell Individual Offset	O					
>>>Primary CPICH Power	O				–	
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		0..<maxno ofTDDneighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7][TS25.105]	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Uplink SIR Target	O		Uplink SIR		–	
Downlink SIR Target	M		Uplink SIR		–	
Criticality Diagnostics	O				YES	ignore

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

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [6]TS25.404	-	
>>>UARFCN	M			Corresponds to Nd in ref. [6]TS25.404		
>>>Frame Offset	O				-	
>>>Primary Scrambling Code	M				-	
>>>Primary CPICH Power	O				-	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..<maxno ofTDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7]TS25.405	-	
>>>Frame Offset	O				-	
>>>Cell Parameter ID	M				-	
>>>Sync Case	M				-	
>>>Time Slot	C-Case1				-	
>>>SCH Time Slot	C-Case2				-	
>>>Cell Individual Offset	O				-	
>>>DPCH Constant Value	O				-	
>>>PCCPCH Power	O				-	
Uplink SIR Target	O		Uplink SIR		-	
Downlink SIR Target	M		Uplink SIR		-	
Criticality Diagnostics	O				YES	ignore

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

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

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>TFCS	M			For the DL.	–	
>>Secondary CCPCH Slot Format	M				–	
>>TFCI presence	C - SlotFormat				–	
>>MultiplexingPosition	M				–	
>>STTD Indicator	M				–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
TFS				For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG REP	M				–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG POS	M				–	
>DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>>Non combining					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>DCH Information Response		<i>1..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>SSDT Support Indicator	M				–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>Neighbouring Cell Information		<i>0..<maxnoof neighbouringRNCs></i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		<i>0..<maxnoof FDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [6]TS25.104	–	
>>>UARFCN	M			Corresponds to Nd in ref. [6]TS25.104		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7]TS25.105	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Criticality Diagnostics	O				YES	ignore

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

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

9.1.7.2 TDD Message

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Address						
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>Neighbouring Cell Information		<i>0..<maxnoof neighbouringRNCs></i>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		<i>0..<maxnoof FDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [6]TS25.104	–	
>>>UARFCN	M			Corresponds to Nd in ref. [6]TS25.104		
>>>Frame Offset	O				–	
>>>Primary Scrambling Code	M				–	
>>>Primary CPICH Power	O				–	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7]TS25.105	–	
>>>Frame Offset	O				–	
>>>Cell Parameter ID	M				–	
>>>Sync Case	M				–	
>>>Time Slot	C-Case1				–	
>>>SCH Time Slot	C-Case2				–	
>>>Cell Individual Offset	O				–	
>>>DPCH Constant Value	O				–	
>>>PCCPCH Power	O				–	
Criticality Diagnostics	O				YES	ignore

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

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

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
Unsuccessful RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M				–	
>Cause	M				–	
Successful RL Information Response		0..<maxnoof RLS-2>			EACH	ignore
>RL ID	M				–	
>RL Set ID	M				–	
>SAI	M				–	
>UL Interference Level	M				–	
>DL Code Information		1..<maxnoof DL Codes>			GLOBAL	ignore
>>DL scrambling code	M				–	
>>FDD DL channelisation code Number	M				–	
>Diversity Indication	M				YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M			Reference RL-Id	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>SSDT Support Indicator	M				–	
>Minimum Uplink SIR	M		Uplink SIR		–	
>Maximum Uplink SIR	M		Uplink SIR		–	
>Maximum Allowed UL Tx Power	M				–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M				–	
>>CN PS Domain Identifier	O				–	
>>CN CS Domain Identifier	O				–	
>>Per FDD Cell Information		0..<maxnoof FDD neighbours>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nu in ref. [6] TS25.104	–	
>>>UARFCN	M			Corresponds to Nd in ref.		

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[6]TS25.104 }		
>>>Frame Offset	O				-	
>>>Primary Scrambling Code	M				-	
>>>Primary CPICH Power	O				-	
>>>Cell Individual Offset	O					
>>>Tx diversity Indicator	O					
>>>STTD Support Indicator	O					
>>>Closed Loop mode1 Support Indicator	O					
>>>Closed Loop mode2 Support Indicator	O					
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>				
>>>C-Id	M					
>>>UARFCN	M			Corresponds to Nt in ref. [7]TS25.105 }	-	
>>>Frame Offset	O				-	
>>>Cell Parameter ID	M				-	
>>>Sync Case	M				-	
>>>Time Slot	C-Case1				-	
>>>SCH Time Slot	C-Case2				-	
>>>Cell Individual Offset	O				-	
>>>DPCH Constant Value	O				-	
>>>PCCPCH Power	O				-	
Criticality Diagnostics	O				YES	ignore

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

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

9.2.1.16 Dedicated Measurement Type

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

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

NOTE: For definitions of the measurement types refer to ref. [\[+11\]](#) and [14].

9.2.1.17 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dedicated measurement Value				
>SIR value	C <i>MeasValue</i>		INTEGER(0. .63)	According to mapping in 25.215 ref. [11]/ 25.225 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] , 25.215 / 25.225
>RSCP	C <i>MeasValue</i>		INTEGER(0. .81)	According to mapping in ref. [14] , 25.225 (TDD only)

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

9.2.1.21 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.~~ 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 Discontinuous Reception.

9.2.1.53 Transport Format Combination Set

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description
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-1)	Integer number calculated according to ref. [14].
>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; mapping in accordance to TS 25.213ref. [21] .
>>>Gain Factor β_D	M		Integer (0..15)	For UL DPDCH or data part of PRACH in FDD: mapping in accordance to TS 25.213 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

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

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

9.2.1.55 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]25.104 and, ref. [7]25.105 .

9.2.1.66 DPCH Constant Value

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

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

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

9.2.1.67 Measurement Threshold

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

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
SIR	<i>C – Threshold</i>		INTEGER(0..63)	According to mapping in ref. [11] and [14].25-215/25-225
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].25-215/25-225
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in ref. [14].25-225 . (TDD only)

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

9.2.1.69 PCCPCH Power

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

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

9.2.1.70 IMSI

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

9.2.2.39 FDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD S-CCPCH Offset			INTEGER(0..149)	0: 0 chip 1: 256 chip 2: 512 chip .. 149: 38144 chip [TS-25.214]ref. [8]

9.2.2.40 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER (0..17)	refer to See 25.214 ref. [8].

9.2.2.51 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when $SFN \bmod IB_SG_REP = IB_SG_POS$.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG REP			INTEGER (16, 32, 64, 128, 256, 512, 1024, 2048)	Repetition period for the IB segment in frames

9.2.2.52 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power_Adjustment Type			ENUMERATED (None, Common, Individual)	

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 ref. [14], 25-225 .

9.3.4 Information Element Definitions

```

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

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

BEGIN

IMPORTS
    maxNrOfErrors,
    maxRateMatching,
    maxNrOfTFCs,
    maxNrOfTFS,
    maxCTFC-1,
    maxTTL-Count
FROM RNSAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes

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

.
.
.
<Editor's note: Several IEs have been omitted.>

.
.
.
-- 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-SDU-Length       ::= INTEGER (1..5000)

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

MeasurementFilterCoefficient ::= INTEGER (1..256)
-- Measurement Filter Coefficient to be used for measurement

MeasurementID          ::= INTEGER (0..1048575)

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

ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod

ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10

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,
    ...
}

MeasurementThreshold ::= CHOICE {
    sir                SIR-Value,
    sir-error          SIR-Error-Value,
    transmitted-code-power Transmitted-Code-Power-Value,
    rscp               RSCP-Value,

```

```

    ...
}
MidambleShift          ::= INTEGER (0..15)
MinUL-ChannelisationCodeLength ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256
}
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}
-- N
.
.
.
<Editor's note: Several IEs have been omitted.>
.
.
.
-- P
PD                    ::= INTEGER (0..2047, ...)
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
SCH-TimeSlot ::= INTEGER (0..6)
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
}
PowerControlMode ::= ENUMERATED {
  v0,
  v1,
  ...
}
PowerOffset ::= INTEGER (0..24)
PowerResumeMode ::= ENUMERATED {
  v0,
  v1,
  ...
}
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 mapping in 25.225
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-DCH,
    non-selected-DCH
}

-- R

RAC ::= OCTET STRING (SIZE(1))

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

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
}

LimitedPowerIncrease ::= ENUMERATED {
    used,

```

```

not-used
}
RL-ID ::= INTEGER (0..31)
RL-Set-ID ::= INTEGER (0..31)
RNC-ID ::= INTEGER (0..4095)
RSCP-Value ::= INTEGER (0..81)
-- According to mapping in 25.225
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)
-- 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)
ScaledMaxAdjustmentPeriod ::= INTEGER(1..50)
-- MaxAdjustmentPeriod (slots) = 10 * ScaledMaxAdjustmentPeriod
ScaledMaxAdjustmentStep ::= INTEGER(1..10)
-- MaxAdjustmentStep (dB) = ScaledMaxAdjustmentStep / 10
ScramblingCodeChange ::= ENUMERATED {
    code-change,
    no-code-change
}
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
}

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

```

•
•
•

<Editor's note: Several IEs have been omitted.>

•
•
•

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
25.423 CR CR118		Current Version: 3.1.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN #8	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)
list expected approval meeting # here ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** April 2000

Subject: Selection of Secondary CCPCH in RNSAP

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"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change:

In the current RNSAP specification the selection of the Secondary CCPCH to be used is currently defined to be either the S-CCPCH coupled to the PRACH or PCPCH where the UE made its first access to the cell or the S-CCPCH selected by the DRNC. However, in the RRC Specification it is defined that the selection of the Secondary CCPCH is based on the U-RNTI currently assigned to the UE (in RRC described as "old U-RNTI"), see the RRC Specification chapter 8.5.7.6.3. This means that the "FACH coupled to the PRACH or PCPCH" does not exist. This instead the Secondary CCPCH selected by the UE.

This CR clarifies that the Secondary CCPCH to be used is either the one selected by the UE or the one selected by the DRNC.

Clauses affected: 8.4.1.2, 9.1.36, 9.3.3, and 9.3.6

Other specs affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: TS 25.425 CR016 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	---	--

Other comments:

8.4 Common Transport Channel Procedures

8.4.1 Common Transport Channel Resources Initialisation

8.4.1.1 General

The Common Transport Channel Resources Initialisation procedure is used by the SRNC for the initialisation of the Common Transport Channel user plane towards the DRNC and/or for the initialisation of the UE context in the DRNC.

This procedure shall use the connectionless mode of the signalling bearer.

8.4.1.2 Successful Operation

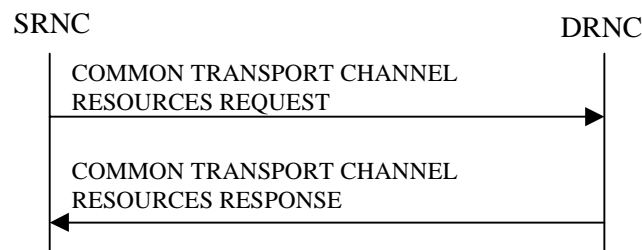


Figure 1: Common Transport Channel Resources Initialisation procedure, Successful Operation

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST to the DRNC.

Upon reception of the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall respond by sending a COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message to the SRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE and include the *Binding Identity* and *Transport Layer Address* IEs in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer not Requested", the DRNC shall use the transport bearer for the indicated by the *Transport Bearer ID* IE.

The DRNC shall include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c SDU Length* IEs for each priority class.

If there exists multiple Secondary CCPCHs in the cell where the UE is located, the DRNC may include in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message the *FACH Info for optional-DRNC Selected S-CCPCH* IE group to be used by the UE which is different from the Secondary CCPCH used by the UE at reception of the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message. If the DRNC includes the *FACH Info for optional-DRNC Selected S-CCPCH* IE group, then it shall also include the *FACH Priority Indicator* IE and *FACH Initial Window Size* IE for each priority class for the new Secondary CCPCH.

8.4.1.3 Unsuccessful Operation

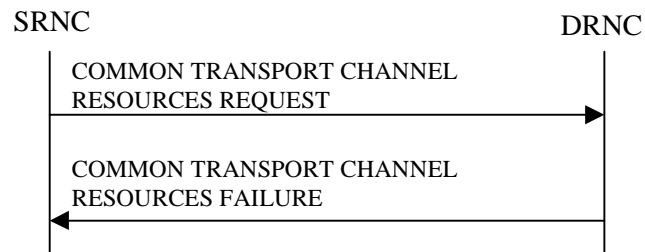


Figure 2: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, indicating the cause of the failure.

8.4.1.4 Abnormal Conditions

-

9.1.36 COMMON TRANSPORT CHANNEL RESOURCES RESPONSE

9.1.36.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	ignore
FACH Info for UE Selected S-CCPCH coupled to PRACH or PCPCH		1			YES	ignore
>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>MAC-c SDU Length		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
FACH Info for optional DRNC Selected S-CCPCH		0..1			YES	ignore
>FDD S-CCPCH Offset	M			Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [7]	–	
>DL Scrambling Code	M				–	
>FDD DL Channelisation Code Number	M				–	
>TFCS	M			For the DL.	–	
>Secondary CCPCH Slot Format	M				–	
>MultiplexingPosition	M				–	
>STTD Indicator	M				–	
>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>MAC-c SDU Length		1..<MaxNb MACcSDU Length>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
Transport Layer Address	O				YES	ignore
Binding Identity	O				YES	ignore
Criticality Diagnostics	O				YES	ignore

Range Bound	Explanation
MaxNbMACcSDULength	Maximum number of different MAC-c SDU Lengths.

9.1.36.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M				YES	reject
Transaction ID	M				–	
S-RNTI	M				YES	ignore
FACH Info for <u>UE Selected S-CCPCHs-coupled to PRACH</u>		1			YES	ignore
>Priority Indicator & Initial Window Size		1.. 16		Provide Information for each priority class used	GLOBAL	ignore
>>FACH Priority Indicator	M				–	
>>MAC-c SDU Length		1..< MaxNbMA CcSDULen gth>			GLOBAL	ignore
>>>MAC-c SDU Length	M				–	
>>FACH Initial Window Size	M				–	
FACH Info for <u>optional DRNC Selected</u> group of S-CCPCHs		0.. 1			YES	ignore
>TFCS	M			For DL CCTrCH supporting several Secondary CCPCHs	–	
>Secondary CCPCH	M	1..<MaxnoofS CCPCHs>			GLOBAL	ignore
>>TDD Channelisation Code	M				–	
>>Time Slot	M				–	
>>Burst Type	M				–	
>>Midamble shift	M				–	
>>TDD Physical Channel Offset	M				–	
>>Repetition Period	M				–	
>>Repetition Length	M				–	
>>Priority Indicator & Initial Window Size		1..16		Provide Information for each priority class used	GLOBAL	ignore
>>>FACH Priority Indicator	M				–	
>>>MAC-c SDU Length		1..< MaxNbMA CcSDULen gth>			GLOBAL	ignore
>>>>MAC-c SDU Length	M				–	
>>>FACH Initial Window Size	M				–	
>>>Transport Layer Address	O				YES	ignore
>>>Binding Identity	O				YES	ignore
Criticality Diagnostics	O				YES	ignore

Range Bound	Explanation
MaxNbMACcSDULength	Maximum number of different MAC-c SDU Lengths.
MaxnoofSCCPCHs	TBD

9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    CFNOffset,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CompressedModeMethod,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-CombinationInd,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-FrameType,
    DL-Power,
    DL-ScramblingCode,

```

DPCHConstantValue,
DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
FACH-InitialWindowSize,
FACH-PriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FrameHandlingPriority,
FrameOffset,
GapPeriod,
GapPositionMode,
IB-SG-POS,
IB-SG-REP,
IMSI,
L3-Information,
LimitedPowerIncrease,
MAC-c-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
PD,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerControlMode,
PowerOffset,
PowerResumeMode,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RANAP-RelocationInformation,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,

```

ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
ScaledMaxAdjustmentPeriod,
ScaledMaxAdjustmentStep,
ScramblingCodeChange,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TGD,
TGL,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DeltaSIR,
UL-DeltaSIRAfter,
UL-DL-CompressedModeSelection,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID
FROM RNSAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{}

```

```

ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
RNSAP-PRIVATE-IES,
RNSAP-PROTOCOL-EXTENSION,
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-IES-PAIR
FROM RNSAP-Containers

```

```

maxNrOfCCTrCHs,
maxNrOfDCHs,
maxNrOfDL-Codes,
maxNrOfDPCHs,
maxNrOfMACcSDU-Length,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfSCCPCHs,
maxNrOfULTs,
maxNrOfCMPatterns,
maxRNCinURA,
maxNrOfNeighbouringRNCs,
maxNrOfFDDNeighboursPerRNC,
maxNrOfTDDNeighboursPerRNC,
maxFACHCountPlus1,
maxIBSEG,

```

```

id-AllRLItem-DM-Rprt,
id-AllRLItem-DM-Rsp,
id-AllRL-SetItem-DM-Rprt,
id-AllRL-SetItem-DM-Rsp,
id-AllowedQueuingTime,
id-BindingID,
id-C-ID,
id-C-RNTI,
id-CFN,
id-CN-CS-DomainIdentifier,
id-CN-PS-DomainIdentifier,
id-Cause,
id-CellItem-PagingRqst,
id-CM-PatternInformationItem-CompressedModePrep,
id-CM-PatternInformationList-CompressedModePrep,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CriticalityDiagnostics,
id-D-RNTI,

```

id-D-RNTI-ReleaseIndication,
 id-DCH-AddListIE-RL-ReconfReadyFDD,
 id-DCH-AddListIE-RL-ReconfReadyTDD,
 id-DCH-AddListIE-RL-ReconfRsp,
 id-DCH-AddList-RL-ReconfPrepFDD,
 id-DCH-AddList-RL-ReconfPrepTDD,
 id-DCH-AddList-RL-ReconfRqstFDD,
 id-DCH-AddList-RL-ReconfRqstTDD,
 id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfRqstFDD,
 id-DCH-DeleteList-RL-ReconfRqstTDD,
 id-DCH-Information-RL-SetupRqstFDD,
 id-DCH-InformationList-RL-SetupRqstTDD,
 id-DCH-ModifyListIE-RL-ReconfReadyFDD,
 id-DCH-ModifyListIE-RL-ReconfReadyTDD,
 id-DCH-ModifyListIE-RL-ReconfRsp,
 id-DCH-ModifyList-RL-ReconfPrepFDD,
 id-DCH-ModifyList-RL-ReconfPrepTDD,
 id-DCH-ModifyList-RL-ReconfRqstFDD,
 id-DCH-ModifyList-RL-ReconfRqstTDD,
 id-DCH-InformationResponseListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
 id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
 id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
 id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
 id-DL-CodeInformationListIE-RL-AdditionRspFDD,
 id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
 id-DL-CodeInformationListIE-RL-SetupFailureFDD,
 id-DL-DPCH-Information-RL-ReconfPrepFDD,
 id-DL-DPCH-Information-RL-SetupRqstFDD,
 id-DL-DPCH-Information-RL-ReconfRqstFDD,
 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
 id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
 id-DL-DPCH-InformationItem-RL-SetupRspTDD,
 id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-SIRTarget,
 id-DLReferencePower,
 id-DLReferencePowerList-DL-PC-Rqst,
 id-DL-ReferencePowerInformation-DL-PC-Rqst,
 id-DRXCycleLengthCoefficient,
 id-DedicatedMeasurementObjectType-DM-Rprt,
 id-DedicatedMeasurementObjectType-DM-Rqst,

id-DedicatedMeasurementObjectType-DM-Rsp,
 id-DedicatedMeasurementType,
 id-DiversityIndicationItem-RL-AdditionFailureFDD,
 id-DiversityIndicationItem-RL-AdditionRspFDD,
 id-DiversityIndicationItem-RL-AdditionRspTDD,
 id-DiversityIndicationItem-RL-SetupFailureFDD,
 id-DiversityIndicationItem-RL-SetupRspFDD,
 id-FACH-InfoFor~~DRNCSelectedOptional~~S-CCPCH-CTCH-ResourceRspFDD,
 id-FACH-InfoFor~~DRNCSelectedOptional~~S-CCPCH-CTCH-ResourceRspTDD,
 id-FACH-InfoFor~~UESelectedS-CCPCH-CoupledToPRACHorPCPCH~~-CTCH-ResourceRspFDD,
 id-FACH-InfoFor~~UESelectedS-CCPCH-CoupledToPRACH~~-CTCH-ResourceRspTDD,
 id-IMSI,
 id-L3-Information,
 id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD,
 id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD,
 id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
 id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
 id-MaxAdjustmentPeriod,
 id-MaxAdjustmentStep,
 id-MeasurementFilterCoefficient,
 id-MeasurementID,
 id-MultipleURAsIndicator,
 id-NeighbouringFDD-CellInformationItem-RL-AdditionFailureFDD,
 id-NeighbouringFDD-CellInformationItem-RL-AdditionRsp,
 id-NeighbouringFDD-CellInformationItem-RL-SetupFailureFDD,
 id-NeighbouringFDD-CellInformationItem-RL-SetupRsp,
 id-NeighbouringTDD-CellInformationItem-RL-AdditionFailureFDD,
 id-NeighbouringTDD-CellInformationItem-RL-AdditionRsp,
 id-NeighbouringTDD-CellInformationItem-RL-SetupFailureFDD,
 id-NeighbouringTDD-CellInformationItem-RL-SetupRsp,
 id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
 id-Neighbouring-CellInformationItem-RL-SetupRsp,
 id-NonCombiningItem-RL-AdditionFailureFDD,
 id-NonCombiningItem-RL-AdditionRspFDD,
 id-NonCombiningItem-RL-AdditionRspTDD,
 id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD,
 id-NonCombiningOrIENotPresentItem-RL-SetupRspFDD,
 id-PagingArea-PagingRqst,
 id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
 id-PowerAdjustmentType,
 id-ProcedureScope-DL-PC-Rqst,
 id-RANAP-RelocationInformation,
 id-RL-Information-PhyChReconfRqstFDD,
 id-RL-Information-PhyChReconfRqstTDD,
 id-RL-Information-RL-AdditionRqstFDD,
 id-RL-Information-RL-AdditionRqstTDD,
 id-RL-Information-RL-DeletionRqst,
 id-RL-Information-RL-FailureInd,

id-RL-Information-RL-ReconfPrepFDD,
 id-RL-Information-RL-RestoreInd,
 id-RL-Information-RL-SetupRqstFDD,
 id-RL-Information-RL-SetupRqstTDD,
 id-RL-InformationItem-DM-Rprt,
 id-RL-InformationItem-DM-Rqst,
 id-RL-InformationItem-DM-Rsp,
 id-RL-InformationItem-RL-SetupRqstFDD,
 id-RL-InformationList-RL-AdditionRqstFDD,
 id-RL-InformationList-RL-DeletionRqst,
 id-RL-InformationList-RL-ReconfPrepFDD,
 id-RL-InformationResponse-RL-AdditionRspTDD,
 id-RL-InformationResponse-RL-ReconfReadyTDD,
 id-RL-InformationResponse-RL-SetupRspTDD,
 id-RL-InformationResponseItem-RL-AdditionRspFDD,
 id-RL-InformationResponseItem-RL-ReconfReadyFDD,
 id-RL-InformationResponseItem-RL-ReconfRsp,
 id-RL-InformationResponseItem-RL-SetupRspFDD,
 id-RL-InformationResponseList-RL-AdditionRspFDD,
 id-RL-InformationResponseList-RL-ReconfReadyFDD,
 id-RL-InformationResponseList-RL-ReconfRsp,
 id-RL-InformationResponseList-RL-SetupRspFDD,
 id-RLItem-DM-Rprt,
 id-RLItem-DM-Rqst,
 id-RLItem-DM-Rsp,
 id-RL-ReconfigurationFailure-RL-ReconfFail,
 id-RL-ReconfigurationFailureList-RL-ReconfFail,
 id-RL-Set-InformationItem-DM-Rprt,
 id-RL-Set-InformationItem-DM-Rqst,
 id-RL-Set-InformationItem-DM-Rsp,
 id-RL-Set-Information-RL-FailureInd,
 id-RL-Set-Information-RL-RestoreInd,
 id-RL-SetItem-DM-Rprt,
 id-RL-SetItem-DM-Rqst,
 id-RL-SetItem-DM-Rsp,
 id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
 id-ReportCharacteristics,
 id-Reporting-Object-RL-FailureInd,
 id-Reporting-Object-RL-RestoreInd,
 id-S-RNTI,
 id-SAI,
 id-SRNC-ID,
 id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
 id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
 id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
 id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
 id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
 id-TransportBearerID,
 id-TransportBearerRequestIndicator,
 id-TransportLayerAddress,
 id-UC-ID,

```

id-UL-CCTrCH-Information-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD
FROM RNSAP-Constants;

```

```

-- *****
--
-- Common Container List
--
-- *****

```

```

DPCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IESSetParam } }
RL-IE-ContainerList0      { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IESSetParam } }
RL-IE-ContainerList1      { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { IESSetParam } }
RL-IE-ContainerList1-1    { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs-1, { IESSetParam } }
RL-IE-ContainerList0-1    { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-1, { IESSetParam } }
RL-IE-ContainerList0-2    { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IESSetParam } }
RL-Set-IE-ContainerList   { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IESSetParam } }
CCTrCH-IE-ContainerList0  { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IESSetParam } }
CCTrCH-IE-ContainerList1  { RNSAP-PROTOCOL-IES : IESSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IESSetParam } }

```

```

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

```

-- *****
--
-- 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-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD PRESENCE mandatory } |
    { ID id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedOptionalS-CCPCH-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-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD,
    iE-Extensions                ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD-ExtIEs} }
OPTIONAL,
    ...
}

FACH-InfoForUESelectedS-CCPCH-CoupledToPRACHorPCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD PRESENCE mandatory },
    ...
}

PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD ::= SEQUENCE {
    fACH-PriorityIndicator        FACH-PriorityIndicator,
    mAC-c-SDU-Lengths            MAC-c-SDU-LengthList-CTCH-ResourceRspFDD,
}

```

```

    FACH-InitialWindowSize          FACH-InitialWindowSize,
    iE-Extensions                    ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-SDU-LengthList-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-CTCH-ResourceRspFDD }}

MAC-c-SDU-LengthListIEs-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD CRITICALITY ignore TYPE MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD PRESENCE mandatory },
    ...
}

MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-SDU-LengthItem-CTCH-ResourceRspFDD

MAC-c-SDU-LengthItem-CTCH-ResourceRspFDD ::= SEQUENCE {
    mAC-c-SDU-Length          MAC-c-SDU-Length,
    iE-Extensions              ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

MAC-c-SDU-LengthItem-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

| FACH-InfoForDRNCSelectedOptionalS-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-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

| FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspFDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD PRESENCE mandatory },

```

```

}
...
}

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
    fACH-PriorityIndicator          FACH-PriorityIndicator,
    mAC-c-SDU-Lengths              MAC-c-SDU-LengthList-option-CTCH-ResourceRspFDD,
    fACH-InitialWindowSize         FACH-InitialWindowSize,
    iE-Extensions                  ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs} }
OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-SDU-LengthList-option-CTCH-ResourceRspFDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-option-CTCH-ResourceRspFDD }}

MAC-c-SDU-LengthListIEs-option-CTCH-ResourceRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD    CRITICALITY ignore    TYPE    MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD PRESENCE
mandatory    },
    ...
}

MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD ::= SEQUENCE {
    mAC-c-SDU-Length              MAC-c-SDU-Length,
    iE-Extensions                  ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs} } OPTIONAL,
    ...
}

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelResourcesResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- 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-FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD          CRITICALITY ignore TYPE FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD          PRESENCE mandatory } |
    { ID id-FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD          CRITICALITY ignore TYPE FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD          PRESENCE optional } |
    { ID id-TransportLayerAddress          CRITICALITY ignore TYPE TransportLayerAddress          PRESENCE optional } |
    { ID id-BindingID          CRITICALITY ignore TYPE BindingID          PRESENCE optional } |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
    priorityIndicatorAndInitialWindowSize          PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForUESelectedS-CCPCH-CoupledToPRACH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD          CRITICALITY ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD          PRESENCE mandatory },
    ...
}

PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    fACH-PriorityIndicator          FACH-PriorityIndicator,
    mAC-c-SDU-Lengths          MAC-c-SDU-LengthList-CTCH-ResourceRspTDD,
    fACH-InitialWindowSize          FACH-InitialWindowSize,
    iE-Extensions          ProtocolExtensionContainer { {PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-SDU-LengthList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-CTCH-ResourceRspTDD }}

```

```

MAC-c-SDU-LengthListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD  CRITICALITY ignore  TYPE      MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD  PRESENCE mandatory  },
  ...
}

MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-SDU-LengthItem-CTCH-ResourceRspTDD

MAC-c-SDU-LengthItem-CTCH-ResourceRspTDD ::= SEQUENCE {
  mAC-c-SDU-Length          MAC-c-SDU-Length,
  iE-Extensions            ProtocolExtensionContainer { {MAC-c-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

MAC-c-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
  dl-TFCS                    TFCS,
  secondaryCCPCHs            SecondaryCCPCHList-CTCH-ResourceRspTDD,
  iE-Extensions              ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-InfoForDRNCSelectedOptionalS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ SecondaryCCPCHListIEs-CTCH-ResourceRspTDD }}

SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD  CRITICALITY ignore  TYPE      SecondaryCCPCHListIE-CTCH-ResourceRspTDD  PRESENCE mandatory  },
  ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF SecondaryCCPCHItem-CTCH-ResourceRspTDD

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
  tDD-ChannelisationCode      TDD-ChannelisationCode,
  timeSlot                    TimeSlot,
  burstType                    BurstType,
  midambleShift                MidambleShift,
  tDD-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
  repetitionPeriod              RepetitionPeriod,
  repetitionLength              RepetitionLength,
  priorityIndicatorAndInitialWindowSizeList  PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD,
  iE-Extensions                ProtocolExtensionContainer { {SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
      PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD PRESENCE mandatory },
    ...
}

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    fACH-PriorityIndicator          FACH-PriorityIndicator,
    mAC-c-SDU-Lengths              MAC-c-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-SDU-LengthList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-c-SDU-LengthListIEs-option-CTCH-ResourceRspTDD }}

MAC-c-SDU-LengthListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD PRESENCE
      mandatory },
    ...
}

MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcSDU-Length)) OF MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    mAC-c-SDU-Length              MAC-c-SDU-Length,
    iE-Extensions                  ProtocolExtensionContainer { {MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

MAC-c-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```
}  
.  
.  
.  
<The rest of the ASN.1 module is omitted>  
.  
.  
.
```

9.3.6 Constant Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

RNSAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-commonTransportChannelResourcesInitiationFDD          INTEGER ::= 0
id-commonTransportChannelResourcesInitiationTDD          INTEGER ::= 1
id-commonTransportChannelResourcesRelease                INTEGER ::= 2
id-compressedModeCancellationFDD                        INTEGER ::= 3
id-compressedModeCommitFDD                              INTEGER ::= 4
id-compressedModePrepareFDD                             INTEGER ::= 5
id-downlinkPowerControl                                 INTEGER ::= 6
id-downlinkSignallingTransfer                            INTEGER ::= 7
id-errorIndication                                      INTEGER ::= 8
id-measurementFailure                                   INTEGER ::= 9
id-measurementInitiation                                INTEGER ::= 10
id-measurementReporting                                  INTEGER ::= 11
id-measurementTermination                               INTEGER ::= 12
id-pagingRequest                                        INTEGER ::= 13
id-physicalChannelReconfiguration                       INTEGER ::= 14
id-privateMessage                                       INTEGER ::= 15
id-radioLinkAddition                                    INTEGER ::= 16
id-radioLinkDeletion                                    INTEGER ::= 17
id-radioLinkFailure                                     INTEGER ::= 18
id-radioLinkRestoration                                 INTEGER ::= 19
id-radioLinkSetup                                       INTEGER ::= 20
id-srnsRelocationCommit                                 INTEGER ::= 21
id-synchronisedRadioLinkReconfigurationCancellation     INTEGER ::= 22
id-synchronisedRadioLinkReconfigurationCommit           INTEGER ::= 23
id-synchronisedRadioLinkReconfigurationPrepare         INTEGER ::= 24
id-unSynchronisedRadioLinkReconfiguration              INTEGER ::= 25
id-uplinkSignallingTransfer                             INTEGER ::= 26

-- *****
--
-- Extension constants

```

```

--
-- *****
maxPrivateIEs                INTEGER ::= 65535
maxProtocolExtensions        INTEGER ::= 65535
maxProtocolIEs               INTEGER ::= 65535
-- *****
--
-- Lists
--
-- *****

maxRateMatching              INTEGER ::= 10
maxNrOfTFCs                  INTEGER ::= 10
maxNrOfTFs                   INTEGER ::= 10
maxNrOfCCTrCHs              INTEGER ::= 10
maxNrOfDCHs                  INTEGER ::= 10
maxNrOfDL-Codes              INTEGER ::= 10
maxNrOfDPCHs                 INTEGER ::= 10
maxNrOfErrors                INTEGER ::= 10
maxNrOfMACcSDU-Length       INTEGER ::= 10
maxNrOfRLLs                  INTEGER ::= 10
maxNrOfRLLSets              INTEGER ::= 10
maxNrOfRLLs-1                INTEGER ::= 10
maxNrOfRLLs-2                INTEGER ::= 10
maxNrOfSCCPCHs              INTEGER ::= 10
maxNrOfULTs                  INTEGER ::= 15
maxNrOfCMPatterns           INTEGER ::= 8
maxRNCinURA                 INTEGER ::= 10
maxTTI-Count                 INTEGER ::= 10
maxCTFC-1                    INTEGER ::= 10
maxNrOfNeighbouringRNCs     INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC  INTEGER ::= 10
maxNrOfTDDNeighboursPerRNC  INTEGER ::= 10
maxFACHCountPlus1           INTEGER ::= 10
maxIBSEG                     INTEGER ::= 16
-- *****
--
-- IEs
--
-- *****

id-AllRLLItem-DM-Rprt        INTEGER ::= 0
id-AllRLLItem-DM-Rsp         INTEGER ::= 1
id-AllRLL-SetItem-DM-Rprt    INTEGER ::= 2
id-AllRLL-SetItem-DM-Rsp     INTEGER ::= 3
id-AllowedQueuingTime        INTEGER ::= 4
id-BindingID                 INTEGER ::= 5

```

id-C-ID	INTEGER ::= 6
id-C-RNTI	INTEGER ::= 7
id-CFN	INTEGER ::= 8
id-CN-CS-DomainIdentifier	INTEGER ::= 9
id-CN-PS-DomainIdentifier	INTEGER ::= 10
id-Cause	INTEGER ::= 11
id-CellItem-PagingRqst	INTEGER ::= 12
id-CM-PatternInformationItem-CompressedModePrep	INTEGER ::= 13
id-CM-PatternInformationList-CompressedModePrep	INTEGER ::= 14
id-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD	INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 19
id-CriticalityDiagnostics	INTEGER ::= 20
id-D-RNTI	INTEGER ::= 21
id-D-RNTI-ReleaseIndication	INTEGER ::= 22
id-DCH-AddListIE-RL-ReconfReadyFDD	INTEGER ::= 23
id-DCH-AddListIE-RL-ReconfReadyTDD	INTEGER ::= 24
id-DCH-AddListIE-RL-ReconfRsp	INTEGER ::= 25
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD	INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 35
id-DCH-ModifyListIE-RL-ReconfReadyFDD	INTEGER ::= 36
id-DCH-ModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 37
id-DCH-ModifyListIE-RL-ReconfRsp	INTEGER ::= 38
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 43
id-DL-CCTrCH-InformationItem-RL-ReconfPrepTDD	INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 45
id-DL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionReadyTDD	INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 50
id-DL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 51
id-DL-CCTrCH-InformationList-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
id-DL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 65
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 69
id-DRXCycleLengthCoefficient	INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 73
id-DedicatedMeasurementType	INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 79
id-FACH-InfoFor DRNCSelectedOptional S-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 80
id-FACH-InfoFor DRNCSelectedOptional S-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 81
id-FACH-InfoFor UESelected S-CCPCH- CoupledToPRACHorPCPCH -CTCH-ResourceRspFDD	INTEGER ::= 82
id-FACH-InfoFor UESelected S-CCPCH- CoupledToPRACH -CTCH-ResourceRspTDD	INTEGER ::= 83
id-IMSI	INTEGER ::= 84
id-L3-Information	INTEGER ::= 85
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 86
id-MAC-c-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 87
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 88
id-MAC-c-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 89
id-MaxAdjustmentPeriod	INTEGER ::= 90
id-MaxAdjustmentStep	INTEGER ::= 91
id-MeasurementFilterCoefficient	INTEGER ::= 92
id-MeasurementID	INTEGER ::= 93
id-MultipleURAsIndicator	INTEGER ::= 94
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= 99
id-NonCombiningOrIENotPresentItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrIENotPresentItem-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-ReconfigurationFailureList-RL-ReconfFail	INTEGER ::= 142
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 143
id-RL-Set-InformationItem-DM-Rqst	INTEGER ::= 144
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 145
id-RL-Set-Information-RL-FailureInd	INTEGER ::= 146
id-RL-Set-Information-RL-RestoreInd	INTEGER ::= 147
id-RL-SetItem-DM-Rprt	INTEGER ::= 148
id-RL-SetItem-DM-Rqst	INTEGER ::= 149
id-RL-SetItem-DM-Rsp	INTEGER ::= 150
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind	INTEGER ::= 151
id-ReportCharacteristics	INTEGER ::= 152
id-Reporting-Object-RL-FailureInd	INTEGER ::= 153
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 154
id-S-RNTI	INTEGER ::= 155
id-SAI	INTEGER ::= 156
id-SRNC-ID	INTEGER ::= 157
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD	INTEGER ::= 158

id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 162
id-TransportBearerID	INTEGER ::= 163
id-TransportBearerRequestIndicator	INTEGER ::= 164
id-TransportLayerAddress	INTEGER ::= 165
id-UC-ID	INTEGER ::= 166
id-UL-CCTrCH-Information-RL-ReconfPrepTDD	INTEGER ::= 167
id-UL-CCTrCH-InformationItem-RL-ReconfRqstTDD	INTEGER ::= 168
id-UL-CCTrCH-InformationList-RL-ReconfPrepTDD	INTEGER ::= 169
id-UL-CCTrCH-InformationList-RL-ReconfRqstTDD	INTEGER ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 182
id-UL-DPCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 183
id-UL-SIRTarget	INTEGER ::= 184
id-URA-ID	INTEGER ::= 185
id-URAItem-PagingRqst	INTEGER ::= 186
id-UnsuccessfulRL-InformationResponse	INTEGER ::= 187
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	INTEGER ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 192

END