

**TSG-RAN Meeting #11  
Palm Springs, CA, U.S.A., 13-16 March 2001**

**RP-010164**

**Title:** Agreed CRs to to WI "LCRTDD-lublur"

**Source:** TSG-RAN WG3

**Agenda item:** 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num	Workitem
R3-010713	25.430	014	2	The impacts on TS 25.430 for supporting low chip rate TDD	B	agreed	3.4.0	4.0.0	LCRTDD-lublur
R3-010997	25.402	014	3	The impacts on TS 25.402 for supporting low chip rate TDD	B	agreed	3.4.0	4.0.0	LCRTDD-lublur
R3-010709	25.401	023	1	The impacts on TS 25.401 for supporting low chip rate TDD	B	agreed	3.5.0	4.0.0	LCRTDD-lublur
R3-010998	25.425	023	4	The impacts on TS 25.425 for supporting low chip rate TDD	B	agreed	3.3.0	4.0.0	LCRTDD-lublur
R3-010999	25.435	037	3	The impacts on TS 25.435 for supporting low chip rate TDD	B	agreed	3.5.0	4.0.0	LCRTDD-lublur
R3-010712	25.427	042	2	The impacts on TS 25.427 for supporting low chip rate TDD	B	agreed	3.5.0	4.0.0	LCRTDD-lublur
R3-011007	25.423	309	2	The impacts on TS 25.423 for supporting low chip rate TDD in RNSAP	B	agreed	3.4.0	4.0.0	LCRTDD-lublur
R3-011005	25.433	358	2	The impacts on TS 25.433 for supporting low chip rate TDD in the NBAP Common Procedures	B	agreed	3.4.1	4.0.0	LCRTDD-lublur
R3-011006	25.433	359	3	The impacts on TS 25.433 for supporting low chip rate TDD in the NBAP Dedicated Procedures	B	agreed	3.4.1	4.0.0	LCRTDD-lublur

CR-Form-v3

## CHANGE REQUEST

⌘ **25.401 CR 23** ⌘ rev **1** ⌘ Current version: **3.5.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.401 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>	

<b>Reason for change:</b>	⌘ The current TS is only support 3.84Mcps TDD. It would be support 1.28Mcps TDD in Rel 4. For supporting 1.28Mcps TDD, there must be added corresponding descriptions in TS 25.401.
<b>Summary of change:</b>	⌘ Support of 1.28Mcps TDD is included. 1. In chapter 6 it is explained there are two options in TDD mode: 3.84Mcps TDD and 1.28Mcps TDD.  2. In chapter 7 it is explained Timing Advance procedure is only used for 3.84Mcps while in 1.28Mcps TDD this function can be achieved by the uplink synchronisation procedure.
<b>Consequences if not approved:</b>	⌘ The current TS would not support the REL-4 Work Item "LCR TDD option".  Backward compatibility: These descriptive additions are backward compatible with the previous version of the TS.

<b>Clauses affected:</b>	⌘ 6, 7.2.4.14, 9.1		
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications	⌘	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
<b>Other comments:</b>	⌘		

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

## 6 UTRAN Architecture

The UTRAN consists of a set of Radio Network Subsystems connected to the Core Network through the Iu.

A RNS consists of a Radio Network Controller and one or more Node Bs. A Node B is connected to the RNC through the Iub interface.

A Node B can support FDD mode, TDD mode or dual-mode operation.

There are two chip-rate options in the TDD mode: 3.84Mcps TDD and 1.28Mcps TDD. Each TDD cell supports either of these options.

A Node B which supports TDD cells can support one chip-rate option only, or both options.

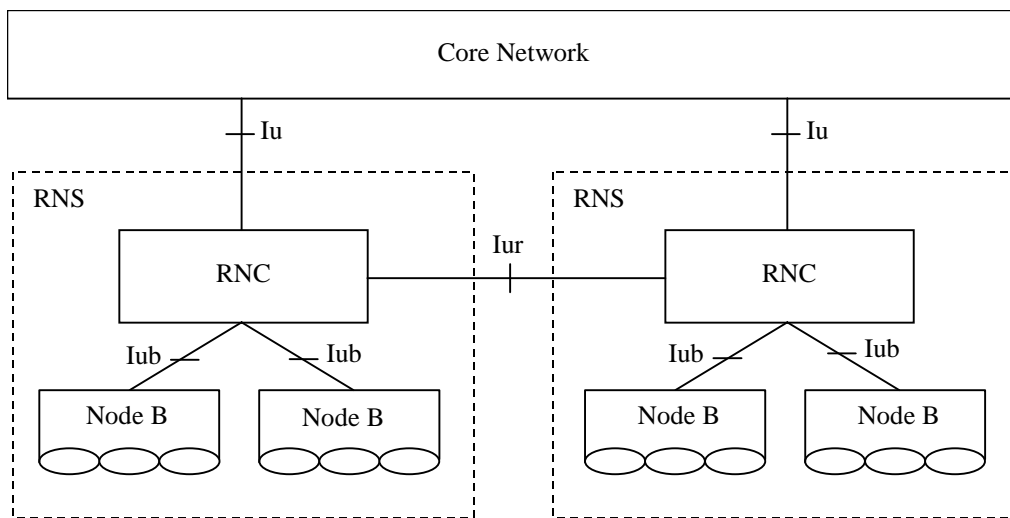
An RNC which supports TDD cells can support one chip-rate option only, or both options.

The RNC is responsible for the Handover decisions that require signalling to the UE.

A RNC may include a combining/splitting function to support combination/splitting of information streams (see subclause 7.2.4.3).

Inside the UTRAN, the RNCs of the Radio Network Subsystems can be interconnected together through the Iur. Iu(s) and Iur are logical interfaces. Iur can be conveyed over direct physical connection between RNCs or virtual networks using any suitable transport network.

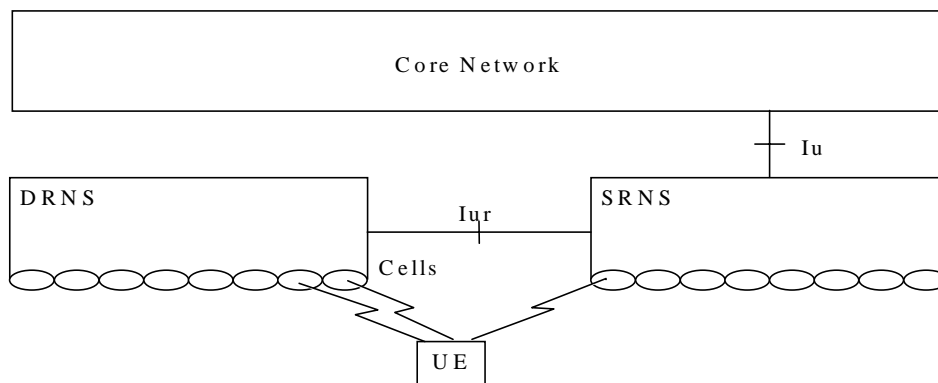
The UTRAN architecture is shown in figure 4.



**Figure 4: UTRAN Architecture**

Each RNS is responsible for the resources of its set of cells.

For each connection between User Equipment and the UTRAN, One RNS is the Serving RNS. When required, Drift RNSs support the Serving RNS by providing radio resources as shown in figure 5. The role of an RNS (Serving or Drift) is on a per connection basis between a UE and the UTRAN.



**Figure 5: Serving and Drift RNS**

The UTRAN is layered into a Radio Network Layer and a Transport Network Layer.

The UTRAN architecture, i.e. the UTRAN logical nodes and interfaces between them, are defined as part of the Radio Network Layer.

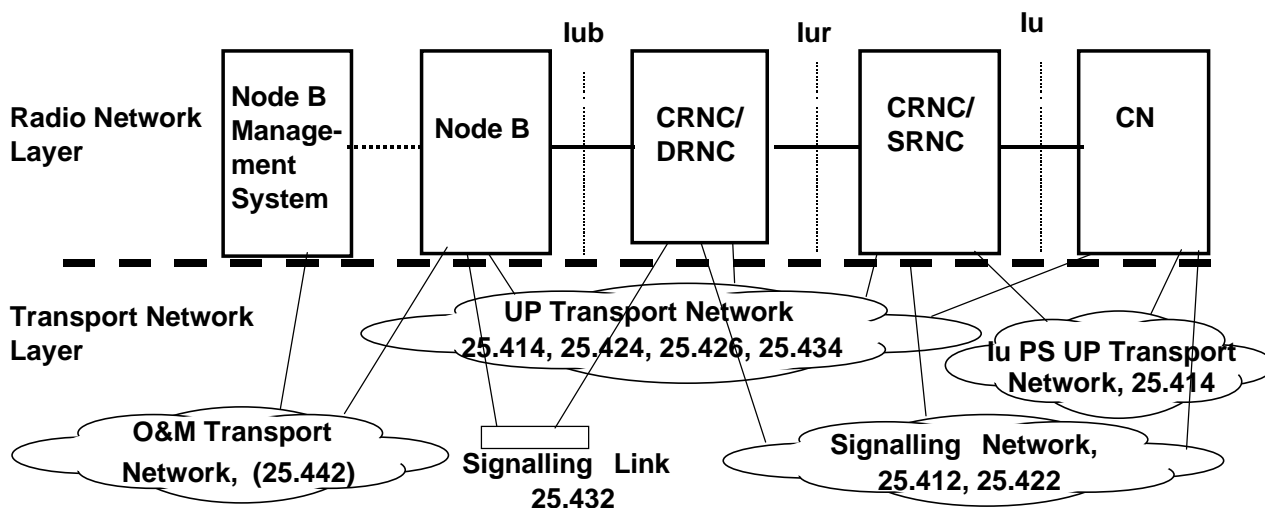
For each UTRAN interface (Iu, Iur, Iub) the related transport network layer protocol and functionality is specified. The transport network layer provides services for user plane transport, signalling transport and transport of implementation specific O&M.

An implementation of equipment compliant with the specifications of a certain interface shall support the Radio Network Layer protocols specified for that interface. It shall also as a minimum, for interoperability, support the transport network layer protocols according to the transport network layer specifications for that interface.

The network architecture of the transport network layer is not specified by 3GPP and is left as an operator issue.

The equipment compliant to 3GPP standards shall at least be able to act as endpoints in the transport network layer, and may also act as a switch/router within the transport network layer.

For implementation specific O&M signalling to the Node B, only the transport network layer protocols are in the scope of UTRAN specifications.



**Figure 6: Protocol layering**

Figure 6 illustrates which parts of the R99 transport network layer that may be (but are not mandated to be) configured by the operator as transport networks, i.e. the radio network layer provides a destination address, namely:

- Transport network for implementation specific O&M traffic
- Signalling network for Iu and Iur

- Transport network for Iub, Iur and Iu CS user plane connections
- Transport network for Iu PS user plane connections

The signalling link for Iub signalling as seen by the radio network layer cannot be configured as a network (no address provided).

A transport network for UTRAN may be configured by the operator to be used also for other traffic than UTRAN traffic.

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## 7 UTRAN Functions description

### 7.2.4.14 [TDD - Timing Advance]

This function is used in uplink to align the uplink radio signals from the UE to the UTRAN. In the 3.84Mcps TDD option, Timing Advance is based on uplink burst timing measurements performed by the Node B L1, and on Timing Advance commands sent downlink to the UE. In the 1.28Mcps TDD option, the Timing Advance function can be achieved by the uplink synchronisation procedure.

## CHANGE REQUEST

⌘ **25.402 CR 14** ⌘ rev **3** ⌘ Current version: **3.4.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.402 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ B	<b>Release:</b>	⌘ REL-4
	<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification)		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

<b>Reason for change:</b>	⌘ Support of 1.28Mcps TDD is introduced in TS 25.402.		
<b>Summary of change:</b>	⌘ Descriptive text in support of 1.28Mcps TDD is included.		
	Rev 1: 1. Modify ch 8.3.5 to remove the words in brackets, and to remove hanging paragraphs. 2. In ch 8.3.5.1.1, remove "as described in paper about cell search procedure". 3. In ch 8.5.3.4, numbered reference. Rev. 2: 4. Some corrections based on the fact that Timing Advance is a sub-function of radio interface synchronisation, and "uplink synchronisation" for 1.28 Mcps TDD is a function which provides timing advance. Rev3: 5. In last paragraph of ch8.3.5.2, the discription "It allocates a unique SYNC_UL code for each UE to establish uplink synchronisation in the access procedure." Has been changed to " UE will select one of the set of SYNC_UL codes which can be used in the cell to establish uplink synchronisation in the access procedure."		
<b>Consequences if not approved:</b>	⌘ The current TS would not support REL-4 with respect to the LCR TDD option.		
	Backward compatibility: These descriptive additions are backward compatible with the previous version of the TS.		

<b>Clauses affected:</b>	⌘ 4.5, 4.7(new), 8.3.4, 8.3.5(new)		
<b>Other specs</b>	⌘ <input type="checkbox"/> Other core specifications	⌘	



**affected:**

- |                          |                     |
|--------------------------|---------------------|
| <input type="checkbox"/> | Test specifications |
| <input type="checkbox"/> | O&M Specifications  |

**Other comments:** ☞

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## 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.
- For this Release 1999 document, references to 3G documents are for Release 1999 versions (version 3.x.y).

- [~~1444~~] 3GPP TS 25.401: "UTRAN Overall Description".
- [2] 3GPP TS 25.423: "UTRAN I<sub>ur</sub> Interface RNSAP Signalling".
- [3] 3GPP TS 25.433: "UTRAN I<sub>ub</sub> Interface NBAP Signalling".
- [4] 3GPP TS 25.435: "UTRAN I<sub>ub</sub> Interface User Plane Protocols for COMMON TRANSPORT CHANNEL Data Streams".
- [5] 3GPP TS 25.427: "I<sub>ub</sub>/I<sub>ur</sub> Interface User Plane Protocol for DCH Data Streams".
- [6] EIA 422-A-78: "Electrical characteristics of balanced voltage digital interface circuits".
- [7] 3GPP TS 25.411: "UTRAN I<sub>u</sub> Interface Layer 1".
- [8] 3GPP TS 25.421: "UTRAN I<sub>ur</sub> Interface Layer 1".
- [9] 3GPP TS 25.431: "UTRAN I<sub>ub</sub> Interface Layer 1".
- [10] 3GPP TS 25.104: "UTRA (BS) FDD; Radio transmission and Reception".
- [11] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [12] 3GPP TS25.223: "Spreading and modulation (TDD)".
- [13] 3GPP TS25.215: "Physical layer - Measurements (FDD)".
- [14] 3GPP TS25.225: " Physical layer - Measurements (TDD)".
- [15] 3GPP TS25.123: "Requirements for Support of Radio Resource Management".
- [16] 3GPP TS25.224: " Physical Layer Procedures (TDD)".

## 4.5 Radio Interface Synchronisation

The Radio Interface Synchronisation relates to the timing of the radio frame transmission (either in downlink [FDD] or in both directions [TDD]). FDD and TDD have different mechanisms to determine the exact timing of the radio frame transmission and also different requirements on the accuracy of this timing.

In FDD Radio Interface Synchronisation is necessary to assure that the UE receives radio frames synchronously from different cells, in order to minimise UE buffers.

In TDD Radio Interface Synchronisation refers to the following two aspects:

- Intercell Synchronisation that is used to synchronise radio frames within neighbouring cells in order to minimise cells cross-interference, to allow frame wise hopping mechanisms among cells (e.g. Cell Parameter Cycling according to Ref. [12]) and to make procedures involving more cells (e.g. handover) easier and more efficient;
- Timing advance that is used between UE and UTRAN in order to minimise UE-cell interference. In the 1.28 Mcps TDD option, timing advance is provided by uplink synchronisation.

## 4.6 Time Alignment Handling

The Time Alignment Handling procedure over Iu relates to the control of DL transmission timing in the CN nodes in order to minimise the buffer delay in SRNC. This procedure is controlled by SRNC.

## 4.7 Uplink Synchronisation

In 1.28Mcps TDD Uplink Synchronisation is performed at Layer 1 for PRACH and uplink DPCH. This procedure includes the establishment of UL synchronisation and maintenance of the UL synchronisation.

## 8.3.4 Timing Advance for 3.84Mcps TDD

Timing Advance is used in uplink to align the uplink radio signals from the UE to the UTRAN both in case of uplink Dedicated Physical Channels (DPCH) and of Physical Uplink Shared Channels (PUSCH).

The handling of timing advance can be divided in four main categories: measurement, initial assignment, updates during operation, and setting on handover. For each category, a number of different cases can be distinguished.

1. Measurement of the timing deviation on the physical channels:
  - On PRACH transmissions;
  - On DPCH transmissions;
  - On PUSCH transmissions.
2. Assignment of correct timing advance value when establishing new channels:
  - At transition to CELL\_DCH state;
  - When establishing an USCH in CELL\_FACH state.
3. Update of timing advance value for channels in operation:
  - UE in CELL\_DCH state;
  - UE with USCH in CELL\_FACH state.
4. Setting of timing advance value for target cell at handover:
  - Handover from TDD to TDD with synchronised cells;
  - Handover from TDD to TDD with unsynchronised cells;
  - Handover from FDD to TDD;
  - Handover from other systems to TDD.

### 8.3.4.1 Measurement of the timing deviation on the physical channels

Timing deviation measurements are always performed in the physical layer in Node B. These measurements have to be reported to the higher layers, where timing advance values are calculated and signalled to the UE. For this reporting, a number of different ways are foreseen, depending on the used physical channels.

- PRACH:** The Node B physical layer measures the timing deviation of the received PRACH signal (RX Timing Deviation) and passes this together with the transport block to the CRNC (by means of the Iub RACH Frame Protocol). In case the RACH carries a DDCH or DTCH, the measured timing deviation may be passed from DRNC to the SRNC over Iur interface (by means of the Iur RACH Frame Protocol). Note: PRACH transmissions themselves are transmitted with a large guard period so they do not require timing advance.
- PUSCH:** The Node B physical layer measures the timing deviation of the received PUSCH signal (RX Timing Deviation) and passes this together with the transport block to the CRNC (by means of the Iub USCH Frame Protocol).
- DPCH:** The Node B physical layer measures the timing deviation of the received DPCH signal (RX Timing Deviation) and passes this value, if the conditions for reporting the measurement are met, to the SRNC (by means of the Iub & Iur DCH Frame Protocols).

### 8.3.4.2 Assignment of correct timing advance value when establishing new channels

#### 8.3.4.2.1 Transition to CELL\_DCH State

The transition to CELL\_DCH state from CELL\_FACH state or Idle Mode operates in the following manner:

- The SRNC checks whether an up to date timing deviation measurement is available. Such a measurement can be available from a recent RACH access (e.g. from initial access) or from a recent USCH transmission. If no up to date timing deviation measurement is available, e.g. because of lack of uplink transmissions, or during USCH over Iur, the SRNC is not informed about RX Timing Deviations, and has to trigger an uplink transmission from the UE before it can assign a DCH (for example, a RRC procedure requiring a response from the UE). The SRNC calculates the required timing advance value and saves it in the UE context in the SRNC for later use in dedicated or shared channel activation.
- The SRNC attaches the timing advance value to the channel allocation message that it signals to the UE via FACH (RRC CONNECTION SETUP or RADIO BEARER SETUP).
- When the UE receives the channel allocation message it configures its physical layer with the given absolute timing advance value. When a timing advance command is signalled to the UE, the CFN that the new timing advance is to be applied is always signalled.

#### 8.3.4.2.2 When establishing an USCH in CELL\_FACH state

For uplink traffic using the USCH, short time allocations are sent to the UE regularly. Therefore establishing an USCH in CELL\_FACH state is very similar to handling of timing advance updates during USCH operation. The UTRAN shall use a recent timing deviation measurement. Such a measurement shall be available from a recent USCH burst or a recent RACH access (e.g. from a PUSCH\_CAPACITY\_REQUEST).

#### 8.3.4.3 Update of timing advance value for channels in operation

##### 8.3.4.3.1 UE in CELL\_DCH state

An UE that is operating a dedicated channel (CELL\_DCH state), has to update the timing advance from time to time to keep the received signal at the Node B within the required time window. Under reasonable assumptions the worst case update frequency is in the order of 8 seconds.

The timing advance update procedure operates in the following manner:

1. The SRNC determines whether a new timing advance value has to be transmitted to the UE taking into account the timing deviation measurements. The new timing advance value is calculated taking into account the UE's current timing advance value.
2. The new timing advance value and the CFN in which it is to take effect are signalled to the UE via RRC signalling on FACH or DCH (PHYSICAL CHANNEL RECONFIGURATION, TRANSPORT CHANNEL RECONFIGURATION, RADIO BEARER RECONFIGURATION or UPLINK PHYSICAL CHANNEL CONTROL are examples of possible messages on the DCCH).
3. The SRNC shall also send the updated timing advance value and the CFN in which it is to take effect to the Node B, using a user plan control message. The Node B may adjust its physical layer to take the change in uplink transmission into account.
4. When the UE receives a new timing advance value, it shall configure its physical layer so that the updated timing advance value takes effect on the given CFN specified within the RRC message. The timing advance value shall be applied to all DPCHs and, if present, to all PUSCHs.

There is no need for the UE to acknowledge the timing advance update: the Node B continually measures and reports the UE timing deviation and the UE reports the received timing advance value as part of its measurement reporting. The SRNC is thus able to detect if a timing advance update has not been received and needs to be resent.

##### 8.3.4.3.2 UE with USCH Traffic in CELL\_FACH state

If the UE uses an USCH in CELL\_FACH state (no DCH), the timing advance update procedure operates in the following manner:

1. The CRNC determines whether a new timing advance value has to be transmitted to the UE taking into account when the last timing advance update was signalled. Two cases are possible:

- If the data transfer is uplink after a longer idle period then the UE has to transmit a capacity request on the RACH. The CRNC is therefore informed of any timing deviation on this RACH.
  - If a new allocation follows an USCH transmission, the timing deviation is already known to the CRNC from measurements of the last uplink transmission.
2. If a Timing Advance update is needed, the CRNC includes a new timing advance value and the CFN in which it will take effect in the next USCH allocation message to the UE (PHYSICAL SHARED CHANNEL ALLOCATION).
  3. The CRNC shall also send a user plane control message indicating the CFN and the updated timing advance value to the Node B so the Node B can adjust its physical layer averaging to take the change in uplink transmission into account.
  4. When the UE receives a new timing advance value, the UE shall configure its physical layer, so that the updated timing advance value takes effect on the given CFN specified within the PHYSICAL SHARED CHANNEL ALLOCATION message. The timing advance value shall be applied to all present PUSCHs.

### 8.3.4.4 Setting of timing advance value for target cell at handover

#### 8.3.4.4.1 General

Since the uplink radio signals need to be adjusted only because of large enough distances between the UE and the cell transmission, certain cells will have a small enough radius that timing advance needs to not be used. In those cells the timing advance value in the UE is set to zero and UE autonomous adjustment of timing advance upon handover is disabled in the handover messages to the UE.

In these cells, where TA is not applied, the "RX Timing Deviation" measurement can be omitted if no other procedure (e.g. LCS) requires it.

#### 8.3.4.4.2 Handover from TDD to TDD with synchronised cells

When two TDD cells are involved in handover and the two cells are sufficiently synchronised, a UE is able to measure the time offset between P-CCPCH reception of the two cells and, consequently, is able to autonomously correct its timing on handover without UTRAN assistance. However to improve the accuracy for the UE calculated timing advance, the SRNC can include an updated timing advance based on the timing deviation measured by the old cell in the messages triggering the handover in the UE. Note that this update shall apply in the old cell at the specified CFN if handover is performed on a later CFN or if the handover fails and falls back to the old cell. The UE shall use this new value as the basis for the UE autonomous update.

After a successful handover, a response message is transmitted in the new cell. In this message, if the UE autonomously updated its timing advance it shall report the calculated timing advance value, which it is using for access to the new cell. By this way, the SRNC is informed as fast as possible about the absolute timing advance value in the UE, and it can correct the timing advance immediately or in the future based on this value, if necessary.

#### 8.3.4.4.3 Handover from FDD to TDD, Handover from other systems to TDD, or Handover from TDD to TDD with unsynchronised cells

In these cases, since synchronisation between the handover cells is not possible, the new TDD cell must use a burst type with a large enough transmission window to allow the immediate transmission of data without the need of timing advance adjustment in the new cell, since timing adjustment can only be performed in these cells after the first uplink transmission.

## 8.3.5 UL Synchronisation for 1.28Mcps TDD

This section describes the details of the UL synchronisation including the establishment of UL synchronisation and maintenance of the UL synchronisation.

### 8.3.5.1 The establishment of uplink synchronisation

#### 8.3.5.1.1 Preparation of uplink synchronisation by downlink synchronisation

When a UE is powered on, it first needs to establish the downlink synchronisation with the cell as described in paper about cell search procedure. Only after the UE can establish and maintain the downlink synchronisation, it can start the uplink synchronisation procedure.

#### 8.3.5.1.2 Establishment of uplink synchronisation

Although the UE can receive the downlink synchronisation signal from the Node B, the distance to Node B is still uncertain which would lead to unsynchronised uplink transmission. Therefore, the first transmission in uplink direction is performed in a special time slot UpPTS, using the Uplink Pilot Channel (UpPCH), to avoid interference in traffic time-slots.

The timing used for the SYNC<sup>4</sup> UL burst are set e.g. according to the received power level of DwPTS (DwPCH) and/or P-CCPCH.

At the detection of the SYNC<sup>4</sup> UL sequence in the searching window, the Node B will evaluate the received power levels and timing, and reply by sending the adjustment information to UE to modify its timing and power level for next transmission and for establishment of the uplink synchronisation procedure. –Within the next 4 sub-frames, the Node B will send the adjustment information to the UE (in a single subframe message in the FPACH). The uplink synchronisation procedure, normally used for a random access to the system, can also be used for the re-establishment of the uplink synchronisation when uplink is out of synchronisation.

### 8.3.5.2. Maintenance of uplink synchronisation

For the maintenance of the uplink synchronisation, the midamble field of each uplink burst can be used.

In each uplink time slot the midamble in each UE is different. The Node B can estimate the power level and timing shift by measuring the midamble field of each UE in the same time slot. Then, in the next available downlink time slot, the Node B will signal the Synchronisation Shift (SS) and the Power Control (PC) commands to enable the UE to properly adjust respectively its Tx timing and Tx power level.

These procedures guarantee the reliability of the uplink synchronisation. The uplink synchronisation can be checked once per 1.28Mcps TDD sub-frame. The step size in uplink synchronisation is configurable and re-configurable and can be adapted from 1/8 chip to 1 chip duration. The following updates for UL synchronisation are possible: 1 step up; 1 step down; no update.

[Explanation difference:]

For high chip rate 3.84Mcps TDD option, –uplink synchronisation is mentioned in 4.3 of [16]TS25.224. But the implementation method is a little different with the low chip rate 1.28Mcps TDD option. For low chip rate 1.28Mcps TDD option, the establishment of the UL synchronisation is done by using the UpPTS (UpPCH) and the FPACH.

It allocates a unique SYNC UL code for each UE to establish uplink synchronisation in the access procedure UE will select one of the set of SYNC UL codes which can be used in the cell to establish uplink synchronisation in the access procedure. The benefit of this method is when the UE wants to do random access, the PRACH will have minimum interference to other traffic channel. Vice versa, it will also reduce the interference from traffic channels to PRACH.

## CHANGE REQUEST

⌘ **25.423 CR 309** ⌘ rev **2** ⌘ Current version: **3.4.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.423 for supporting low chip rate TDD in RNSAP		
<b>Source:</b>	⌘ <u>R-WG3</u>		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
	<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)

<b>Reason for change:</b>	⌘ The current TS only supports the 3.84Mcps option of TDD. It shall also support 1.28Mcps TDD in REL-4. In particular, the physical channel related Information Elements in the RNSAP messages related to TDD need to be complemented to include the 1.28Mcps option.
<b>Summary of change:</b>	⌘ The parameters which are needed for 1.28Mcps TDD are added in the Tabular Format of the messages of the RNSAP Procedures and in ASN.1, and the procedure text is suitably modified.
	Rev1: TSTD support indicator is added in Radio Link Setup Request messages and TSTD indicator is added in Radio Link Setup/Addition Response messages.
	Rev2: 1.ch. 4.4: In paragraph on 3.84 tagging the erroneous 1.28 is changed to 3.84. 2 No use of "presence" for IEs with range. Let range start from 0. In Tabular.Ch9.1.4.2,9.1.7.2,9.1.21.2,9.1.40 changed. 3. Add Criticality in tabular..Ch9.1.6.2,9.1.7.2,9.1.12.2,9.1.21.2,9.2.1.40,9.2.1.41A. 4. Ch9.2.1.41A: Add '>' before IE'Neighbouring TDD Cell Information LCR' 5.Ch 8.3.2.2 Add 'LCR' into the text. 6. ch9.1.7.2 '>Neighbouring UMTS Cell Information LCR', remove "LCR". 7. ch. 9.2.3.x2 Mention 8PSK option in the text. 8. ch. 9.1.7.2 (RL Addition Response): <u>Criticality of Neighbouring GSM Cell removed to align with criticality of Neighbouring UMTS Cell Information. This also aligns it to 9.1.4.2 (RL Setup Response)</u> 9. ch. 9.1.40 (DL Power Timeslot Control Request): Refer to DL Time Slot Info LCR as in



ch. 9.1.2.6 (RL Addition Request).

8.3.1.2 and 8.3.2.2, Text "For any UMTS neighbouring cell ..." adapted to include 1.28 Mcps TDD.

10. ASN.1: Import of "id-neighbouring-LCR-TDD-CellInformation" was in wrong module.

Backward compatibility:

This CR is backward compatible with the previous version of RNSAP. (More details on this issue are found in the TR 25.937.)

**Consequences if not approved:** ☼ If this CR is not approved, 1.28Mcps TDD will not be supported by RNSAP.

**Clauses affected:** ☼ 4.4, 8.3.1.2, 8.3.2.2, 8.3.4.2, 8.3.8.2, 9.1.3.2, 9.1.4.2, 9.1.6.2, 9.1.7.2, 9.1.12.2, 9.1.21.2, 9.1.40, 9.2.1.19, 9.2.1.41A, 9.2.3.7A, 9.3.3, 9.3.4, 9.3.6  
new: 9.2.3.x1, 9.2.3.x2, 9.2.3.x3, 9.2.3.x4, 9.2.3.x5, 9.2.3.x6, 9.2.3.x7, 9.2.3.x8, 9.2.3.x9, 9.2.3.x10, 9.2.3.x11, 9.2.3.x12

**Other specs affected:** ☼  Other core specifications ☼   
 Test specifications  
 O&M Specifications

**Other comments:** ☼

#### How to create CRs using this form:

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

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

## 4.4 Specification Notations

For the purposes of the present document, the following notations apply:

[FDD]	This tagging of a word indicates that the word preceding the tag "[FDD]" applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "[FDD]" and the section following the heading applies only to FDD.
[TDD]	This tagging of a word indicates that the word preceding the tag "[TDD]" applies only to TDD, <u>including 3.84Mcps TDD and 1.28Mcps TDD</u> . This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD, <u>including 3.84Mcps TDD and 1.28Mcps TDD</u> .
<u>[3.84Mcps TDD]</u>	<u>This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD]" applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD]" and the section following the heading applies only to 3.84Mcps TDD.</u>
<u>[1.28Mcps TDD]</u>	<u>This tagging of a word indicates that the word preceding the tag "[1.28Mcps TDD]" applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[1.28Mcps TDD]" and the section following the heading applies only to 1.28Mcps TDD.</u>
[FDD - ...]	This tagging indicates that the enclosed text following the "[FDD - " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.
[TDD - ...]	This tagging indicates that the enclosed text following the "[TDD - " applies only to TDD, <u>including 3.84Mcps TDD and 1.28Mcps TDD</u> . Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs.
<u>[3.84Mcps TDD - ...]</u>	<u>This tagging indicates that the enclosed text following the "[3.84Mcps TDD - " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to <del>1.28</del>3.84Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs.</u>
<u>[1.28Mcps TDD - ...]</u>	<u>This tagging indicates that the enclosed text following the "[1.28Mcps TDD - " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs.</u>
Procedure	When referring to an elementary procedure in the specification the Procedure Name is written with the first letters in each word in upper case characters followed by the word "procedure", e.g. Radio Link Setup procedure.
Message	When referring to a message in the specification the MESSAGE NAME is written with all letters in upper case characters followed by the word "message", e.g. RADIO LINK SETUP REQUEST message.
IE	When referring to an information element (IE) in the specification the <i>Information Element Name</i> is written with the first letters in each word in upper case characters and all letters in Italic font followed by the abbreviation "IE", e.g. <i>Transport Format Set IE</i> .
Value of an IE	When referring to the value of an information element (IE) in the specification the "Value" is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract Syntax Error (Reject)" or "SSDT Active in the UE".

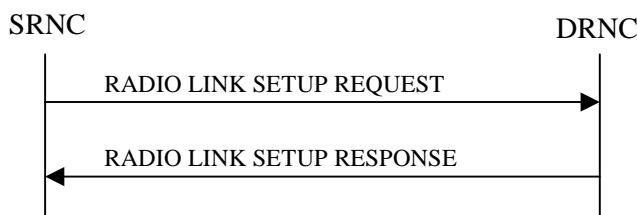
## 8.3.1 Radio Link Setup

### 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 5: 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).

If no *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message, the DRNC shall assign a new *D-RNTI* for this UE.

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

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

[FDD - If the *Propagation Delay* IE is included, the DRNS may use this information to speed up the detection of L1 synchronisation.]

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

[FDD - If the *Initial DL TX Power* IE and *Uplink SIR Target* IE are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. If the value of the *Initial DL TX Power* IE is outside the configured DL TX power range, the DRNS shall apply these constraints when setting the initial DL TX power. The DRNS shall also include the configured DL TX power range defined by *Maximum DL TX Power* IE and *Minimum DL TX Power* IE in the RADIO LINK SETUP RESPONSE message.]

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

[TDD - If the *Primary CCPCH RSCP* IE and/or the [\[3.84Mcps TDD - DL Time Slot ISCP Info IE\]](#) and/or the [\[1.28Mcps TDD - DL Time Slot ISCP Info LCR IE\]](#) are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

[FDD - If the received *Limited Power Increase* IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

[FDD – If the received *Inner Loop DL PC Status IE* is set to “Active”, the DRNS shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status IE* is set to “Inactive”, the DRNS shall deactivate the inner loop DL power control for all RLs according to ref. [10]]

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

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

[TDD - If the *DCH Information IE* is present in RADIO LINK SETUP REQUEST message, the DRNS shall configure the new DCHs according to the parameters given in the message.]

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

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

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

The DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

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

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

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

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

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information IE*, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information IE* and the *Active Pattern Sequence Information IE*, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in subclause 8.3.9.]

[TDD – The DRNS shall use the list of RB Identities in the *RB Info IE* in the *USCH information IE* to map each *RB Identity IE* to the corresponding USCH.]

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for

each DCH or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

If the *DSCH Information* IE is included in the RADIO LINK SETUP REQUEST message, the DRNC shall establish the requested DSCH's [FDD - on the RL indicated by the PDSCH RL ID IE]. In addition, the DRNC shall send a valid set of *DSCH Scheduling Priority* IE and *MAC-c/sh SDU Length* IE parameters to the SRNC in the message RADIO LINK SETUP RESPONSE message.

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

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]

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

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

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

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

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

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

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

For any cell neighbouring a cell in which a RL was established, 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, [3.84Mcps TDD - the Sync Case, the SCH Time Slot information], the Block STTD Indicator] and the node identification of the CN nodes connected to the RNC controlling the neighbouring cell if the UMTS 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, cell individual offset]/[TDD - PCCPCH Power level, DPCH Constant Value] and Frame Offset of the UMTS neighbouring cell.

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

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK SETUP RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *GSM Output Power* IE in the *Neighbouring GSM Cell Information* IE.

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

[FDD - If the *D-RNTI* IE was included the RADIO LINK SETUP REQUEST message the DRNC shall include the *Primary Scrambling Code* IE, the *UL UARFCN* IE, the *DL UARFCN* IE, and the *Primary CPICH Power* IE in the RADIO LINK SETUP RESPONSE message.]

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

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

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

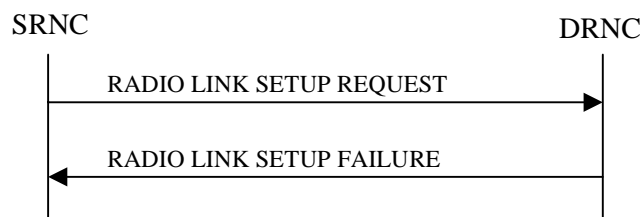
[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE].

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

[FDD –The UL out-of-sync algorithm defined in [10] shall for each of the established RL Set(s) 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 cells supporting the radio links of the RL Set].

For each Radio Link the DRNC shall include the *URA ID* IE of the cell , the *Multiple URAs Indicator* IE indicating whether or not the cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information* IE in the RADIO LINK SETUP RESPONSE message.

### 8.3.1.3 Unsuccessful Operation



**Figure 6: Radio Link Setup procedure: Unsuccessful Operation**

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

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

Typical cause values are:

#### Radio Network Layer Causes:

- RL Already Activated/Allocated
- [FDD - UL Scrambling Code Already in Use];

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- [FDD - Combining Resources not available];
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD - Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Invalid CM Settings;
- Number of DL codes not supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD - UL Shared Channel Type not Supported];
- [FDD - UL Spreading Factor not Supported];
- [FDD - DL Spreading Factor not Supported];
- CM not Supported.

#### **Transport Layer Causes:**

- Transport Resource Unavailable

#### **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.

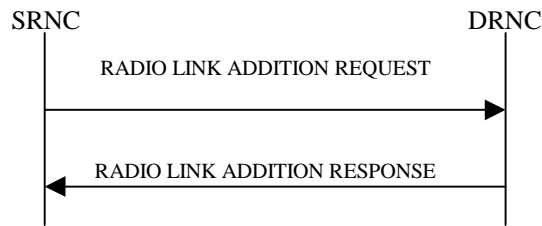
This procedure shall use the signalling bearer connection for the relevant UE context.

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

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

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

### 8.3.2.2 Successful Operation



**Figure 7: 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 DRNS shall prioritise resource allocation for the RL(s) to be established according to Annex A.

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

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

[TDD - If the *Primary CCPCH RSCP IE* and/or the [3.84Mcps TDD - DL Time Slot ISCP Info IE] and/or the [1.28Mcps TDD - DL Time Slot ISCP Info LCR IE] are included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use them in the calculation of the Initial DL TX Power. If the *Primary CCPCH RSCP IE* and [3.84Mcps TDD - DL Time Slot ISCP Info IE] and [1.28Mcps TDD - DL Time Slot ISCP Info LCR IE] are not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

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

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

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

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

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

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information IE*, the DRNS shall use the information to immediately activate all ongoing Transmission Gap Pattern Sequence(s) also in the new RL. For each sequence the *TGCFN* refers to latest passed CFN with that value. If *Active Pattern Sequence Information IE* is not included, the DRNS shall not activate the on going CM pattern in the new RLs, but the on going pattern in the existing RL are maintained.]

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



[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]

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

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

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

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

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the co-ordinated DCHs.

[TDD - If the radio link to be added includes a DSCH, the DRNC shall send a set of valid *DSCH Scheduling Priority* IE and *MAC-c/sh SDU Length* IE parameters to the SRNC in the message RADIO LINK ADDITION RESPONSE message.]

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

For any-cell UMTS cell neighbouring a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, [3.84Mcps TDD - the Sync Case, the SCH Time slot information], the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the UMTS neighbouring cell if the UMTS neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE, *Cell Individual Offset* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the UMTS neighbouring cell.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *GSM Output Power* IE in the *Neighbouring GSM Cell Information* IE.

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

The DRNC shall provide the configured *Maximum DL TX Power* IE and *Minimum DL TX Power* IE for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message.

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

[FDD - If some Transmission Gap Pattern sequences using SF/2 method are initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code]

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

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

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

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

[FDD – When *Transmit Diversity Indicator IE* is present the DRNS shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator IE* and the already known diversity mode.]

[FDD – After addition of the new RL(s), the UL out-of-sync algorithm defined in [10] shall for each of the previously existing and newly established RL Set(s) 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 cells supporting the radio links of the RL Set].

For each Radio Link the DRNC shall include the *URA ID IE* of the cell, the *Multiple URAs Indicator IE* indicating whether or not the cell belongs to multiple URAs, and the RNC Identity of all other RNCs that are having at least one cell within the URA in the cell in the *URA Information IE* in the RADIO LINK ADDITION RESPONSE message.

/\* partly omitted \*/

## 8.3.4 Synchronised Radio Link Reconfiguration Preparation

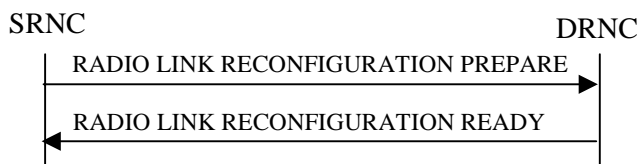
### 8.3.4.1 General

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

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

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

### 8.3.4.2 Successful Operation



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

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allowed Queuing Time* IE the DRNS may queue the request the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

The DRNS shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

#### **DCH Modification:**

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

- If the *DCHs to Modify IE* includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify IE* as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCH Specific Info IE* includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- [FDD - If, in the *DCH Specific Info* IE, the *DRAC Control* IE is present and set to "requested" for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNS does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD - If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD - If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

#### **DCH Addition:**

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

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

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCH to Delete*, the DRNS shall not include the referenced DCHs in the new configuration.

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

#### Physical Channel Modification:

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

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

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

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

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

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

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

[TDD - If any of the *UL CCTrCH to Modify* IEs or *DL CCTrCH to Modify* IEs includes any of *TFCS* IE, *TFCI coding* IE, *Puncture limit* IE, or *TPC CCTrCH ID* IEs the DRNS shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

- [TDD – The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of [3.84Mcps TDD - Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD - Midamble Shift LCR IE, Time Slot LCR IE], *TFCI Presence* IE or Code information was modified. The DRNC shall include code information if [3.84Mcps TDD - TDD Channelisation Code IE] and/or [1.28Mcps TDD - TDD Channelisation Code LCR IE] was modified.]

#### [TDD – UL/DL CCTrCH Addition]

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

[TDD – If the DRNS has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message.3.84Mcps TDD - If no DPCH was active before the reconfiguration, and if a valid Rx Timing Deviation measurement is known in DRNC, then the DRNC shall include the *Rx Timing Deviation* IE in the RADIO LINK RECONFIGURATION READY message.]

#### [TDD – UL/DL CCTrCH Deletion]

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

#### SSDT Activation/Deactivation:

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

#### DSCH Addition/Modification/Deletion:

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

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

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

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

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

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

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

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

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

- If the *USCH to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of USCH Priority classes.
- If the *USCH to Modify* IE includes any of the *CCTrCH Id* IE, *Transport Format Set* IE, *BLER* IE or *RB Info* IE, the DRNS shall apply the parameters to the new configuration.

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

#### **General**

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. In case of a set of coordinated DCHs requiring a new transport bearer on Iur, the *Transport Layer Address*

IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the combined Radio Links.

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

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

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

/\* end of the changed chapter \*/



## 8.3.8 Physical Channel Reconfiguration

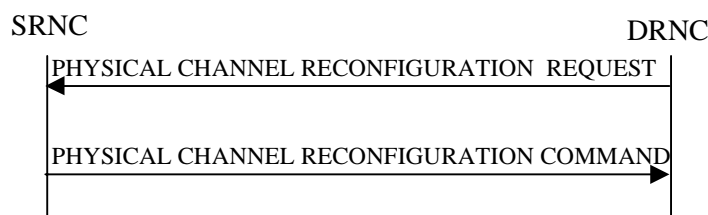
### 8.3.8.1 General

The Physical Channel Reconfiguration procedure is used by the DRNC to request to SRNC the reconfiguration of one of its physical channels.

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

The Physical Channel Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists as defined in subclause 3.1, or if a Synchronised Radio Link Reconfiguration procedure, Unsynchronised Radio Link Reconfiguration procedure or Radio Link Deletion procedure is ongoing.

### 8.3.8.2 Successful Operation



**Figure 16: Physical Channel Reconfiguration procedure, Successful Operation**

When the DRNC detects the need to modify one of its physical channels, it shall send a PHYSICAL CHANNEL RECONFIGURATION REQUEST to the SRNC.

The message contains the new value of the physical channel parameter(s) that shall be reconfigured and in which radio link.

[FDD- If compressed mode is prepared or active and at least one of the downlink compressed mode methods is 'SF/2', the DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the *DL Code Information* IE in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message indicating for each DL Channelisation Code whether the alternative scrambling code will be used or not if the downlink compressed mode methods 'SF/2' is activated.]

[TDD – The SRNC shall apply the new values for any of [3.84Mcps TDD - TDD Channelisation Code IE, Burst Type IE, Midamble shift IE, Time Slot IE], [1.28Mcps TDD - TDD Channelisation Code LCR IE, Midamble shift LCR IE, Time Slot LCR IE], *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE included in the *UL DPCH Information* IE given in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

[TDD – The SRNC shall apply the new values for any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE included in the *DL DPCH Information* IE given in the PHYSICAL CHANNEL RECONFIGURATION REQUEST message, otherwise the old values specified for this DPCH shall still apply.]

Upon reception of the PHYSICAL CHANNEL RECONFIGURATION REQUEST, the SRNC shall decide an appropriate execution time for the change. The SRNC shall respond with a PHYSICAL CHANNEL RECONFIGURATION COMMAND message to the DRNC that includes the *CFN* IE indicating the execution time.

At the CFN, the DRNS shall switch to the new configuration that has been requested, and release the resources related to the old physical channel configuration.

/\* end of the changed chapter \*/

### 9.1.3 RADIO LINK SETUP REQUEST

/\* partly omitted \*/

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
SRNC-Id	M		RNC-Id 9.2.1.50		YES	reject
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
<b>UL Physical Channel Information</b>		1			YES	reject
>Maximum Number of Timeslots per Frame	M		9.2.3.3A	For the UL	–	
>Minimum Spreading Factor	M		9.2.3.4A	For the UL	–	
>Maximum Number of UL Physical Channels per Timeslot	M		9.2.3.3B		–	
<b>DL Physical Channel Information</b>		1			YES	reject
>Maximum Number of Timeslots per Frame	M		9.2.3.3A	For the DL	–	
>Minimum Spreading Factor	M		9.2.3.4A	For the DL	–	
>Maximum Number of DL Physical Channels per Frame	M		9.2.3.3C		–	
<b>UL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and USCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the UL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
<b>DL CCTrCH Information</b>		0..<maxno of CCTrCHs>		For DCH and DSCH	EACH	notify
>CCTrCH ID	M		9.2.3.2		–	
>TFCS	M		9.2.1.63	For the DL.	–	
>TFCI Coding	M		9.2.3.11		–	
>Puncture Limit	M		9.2.1.46		–	
>TDD TPC Downlink Step Size	M		9.2.3.10		–	
<b>&gt;TPC CCTrCH List</b>		0 to <maxnoCCTrCH>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.2		–	
DCH Information	O		DCH TDD Information 9.2.3.2A		YES	reject
DSCH Information	O		DSCH TDD Information 9.2.3.3a		YES	reject
USCH Information	O		9.2.3.14A		YES	reject
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	

>DL Time Slot ISCP Info	<u>O</u>		9.2.3.2D	For <u>3.84Mcps</u> TDD only	-	
>DL Time Slot ISCP Info LCR	<u>O</u>		<u>9.2.3.x9</u>	For <u>1.28Mcps</u> TDD only	<u>-YES</u>	<u>reject</u>
>TSTD Support Indicator	<u>O</u>		<u>9.2.3.x12</u>	For <u>1.28Mcps</u> TDD only	<u>YES</u>	<u>ignore</u>

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

## 9.1.4 RADIO LINK SETUP RESPONSE

/\* partly omitted \*/

## 9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
<b>RL Information Response</b>	<b>O</b>	<b>0..1</b>		<b>Mandatory For 3.84Mcps TDD only</b>	YES	ignore
>RL ID	M		9.2.1.49		–	
>URA Information	M		9.2.1.70B		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O		9.2.1.5A		–	
>UTRAN Access Point Position	O		9.2.1.70A		–	
>UL Time Slot ISCP Info	M		9.2.3.13D		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Advance Applied	M		9.2.3.12A		–	
>Alpha Value	M		9.2.3.a		–	
>UL PhysCH SF Variation	M		9.2.3.13B		–	
<b>&gt;UL CCTrCH Information</b>		<i>0..&lt;maxno ofCCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>UL Timeslot Information	M		9.2.3.13C		–	
<b>&gt;DL CCTrCH Information</b>		<i>0..&lt;maxno ofCCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>DL Timeslot Information	M		9.2.3.2C		–	
>DCH Information Response	O		9.2.1.16A		YES	ignore
<b>&gt;DSCH Information Response</b>		<i>0..&lt;Maxnoof DSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.26A		–	
>>DSCH Flow Control Information	M		9.2.1.26B		–	
>>Binding ID	O		9.2.1.3		–	
>>Transport Layer Address	O		9.2.1.62		–	
>>Transport Format Management	M		9.2.3.13		–	
<b>&gt;USCH Information</b>		<i>0..</i>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>Response</b>		<Maxnoof USCHs>				
>>USCH ID	M		9.2.3.14		–	
>>Binding ID	O		9.2.1.3		–	
>>Transport Layer Address	O		9.2.1.62		–	
>>Transport Format Management	M		9.2.3.13		–	
>Neighbouring UMTS Cell Information	O		9.2.1.41A		–	
>Neighbouring GSM Cell Information	O		9.2.1.41C		YES	ignore
<b><u>RL Information Response LCR</u></b>	<b>e</b>	<b>0..1</b>		Mandatory For 1.28Mcps TDD only	<b>YES</b>	<b>ignore</b>
>RL ID	M		9.2.1.49		–	
>URA Information	M		9.2.1.70B		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O		9.2.1.5A		–	
>UTRAN Access Point Position	O		9.2.1.70A		–	
>UL Time Slot ISCP Info LCR	M		9.2.3.x8		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>UL PhysCH SF Variation	M		9.2.3.13B		–	
<b><u>&gt;UL CCTrCH Information LCR</u></b>		<i>0..&lt;maxno ofCCTrCH sLCR&gt;</i>		For DCH	<b>GLOBAL</b>	<b>ignore</b>
>>CCTrCH ID	M		9.2.3.2		–	
<b><u>&gt;&gt;UL DPCH Information LCR</u></b>		<i>0..1</i>			<b>YES</b>	<b>ignore</b>
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>UL Timeslot Information LCR	M		9.2.3.x5		–	
<b><u>&gt;DL CCTrCH Information LCR</u></b>		<i>0..&lt;maxno ofCCTrCH sLCR&gt;</i>		For DCH	<b>GLOBAL</b>	<b>ignore</b>
>>CCTrCH ID	M		9.2.3.2		–	
<b><u>&gt;&gt;DL DPCH Information LCR</u></b>		<i>0..1</i>			<b>YES</b>	<b>ignore</b>
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>DL Timeslot Information LCR	M		9.2.3.x4		–	
>>>TSTD Indicator	M		9.2.3.x11		–	
>DCH Information Response	O		9.2.1.16A		<b>YES</b>	<b>ignore</b>
<b><u>&gt;DSCH Information Response LCR</u></b>		<i>0..&lt;Maxnoof DSCHsLCR&gt;</i>			<b>GLOBAL</b>	<b>ignore</b>
>>DSCH ID	M		9.2.1.26A		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>DSCH Flow Control Information	M		9.2.1.26B		=	
>>Binding ID	O		9.2.1.3		=	
>>Transport Layer Address	O		9.2.1.62		=	
>>Transport Format Management	M		9.2.3.13		=	
>USCH Information Response LCR		0 .. <Maxnoof USCHsLCR>			GLOBAL	ignore
>>USCH ID	M		9.2.3.14		=	
>>Binding ID	O		9.2.1.3		=	
>>Transport Layer Address	O		9.2.1.62		=	
>>Transport Format Management	M		9.2.3.13		=	
>Neighbouring UMTS Cell Information	O		9.2.1.41A		=	
>Neighbouring GSM Cell Information	O		9.2.1.41C		=	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		-	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
MaxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD.
MaxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
MaxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
MaxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.

/\* end of the changed chapter \*/



## 9.1.6 RADIO LINK ADDITION REQUEST

/\* partly omitted \*/

### 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>Frame Offset	M		9.2.1.30		–	
>Diversity Control Field	M		9.2.2.6		–	
>Primary CCPCH RSCP	O		9.2.3.5		–	
>DL Time Slot ISCP Info	O		9.2.3.2D	For 3.84Mcps TDD only	–	
>DL Time Slot ISCP Info LCR	<u>O</u>		<u>9.2.3.x9</u>	For 1.28Mcps TDD only	<b>YES–</b>	<b>reject</b>

/\* end of the changed chapter \*/

## 9.1.7 RADIO LINK ADDITION RESPONSE

/\* partly omitted \*/

## 9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>	<b>E</b>	<b>0..1</b>		<u>Mandatory For 3.84Mcps TDD only</u>	YES	ignore
>RL ID	M		9.2.1.49		–	
>URA Information	M		9.2.1.70B		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O		9.2.1.5A		–	
>UTRAN Access Point Position	O		9.2.1.70A		–	
>UL Time Slot ISCP Info	M		9.2.3.13D		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>Timing Advance Applied	M		9.2.3.12A		–	
>Alpha Value	M		9.2.3.a		–	
>UL PhysCH SF Variation	M		9.2.3.13B		–	
<b>&gt;UL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>UL Timeslot Information	M		9.2.3.13C		–	
<b>&gt;DL CCTrCH Information</b>		<i>0..&lt;maxnoof CCTrCHs&gt;</i>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;DL DPCH Information</b>		<i>0..1</i>			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>DL Timeslot Information	M		9.2.3.2C		–	
<b>&gt;DCH Information</b>		<i>0..1</i>			–	
>>Diversity Indication	M		9.2.2.7		–	
>>CHOICE <i>Diversity Indication</i>	M				–	
>>>Combining					–	
>>>>RL ID	M		9.2.1.49	Reference RL	–	
>>>>Non Combining					–	
>>>>DCH Information Response	M		9.2.1.16A		–	
<b>&gt;DSCH Information Response</b>		<i>0 .. &lt;Maxnoof DSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.26A		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Transport Format Management	M		9.2.3.13		–	
>>DSCH Flow Control Information	M		9.2.1.26B		–	
>>CHOICE <i>Diversity Indication</i>	O				–	
>>>Non Combining					–	
>>>>Binding ID	O		9.2.1.3		–	
>>>>Transport Layer Address	O		9.2.1.62		–	
<b>&gt;USCH Information Response</b>		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M		9.2.3.14		–	
>>Transport Format Management	M		9.2.3.13		–	
>>CHOICE <i>Diversity Indication</i>	O				–	
>>>Non Combining					–	
>>>>BindingID	O		9.2.1.3		–	
>>>>Transport Layer Address	O		9.2.1.62		–	
>Neighbouring UMTS Cell Information	O		9.2.1.41A		–	
>Neighbouring GSM Cell Information	O		9.2.1.41C		YES	ignore
<b><u>RL Information Response LCR</u></b>	<b><u>Y</u></b>	<b><u>0..1</u></b>		<b><u>Mandatory For 1.28Mcps TDD only</u></b>	<b><u>YES</u></b>	<b><u>ignore</u></b>
>RL ID	M		9.2.1.49		–	
>URA Information	M		9.2.1.70B		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O		9.2.1.5A		–	
>UTRAN Access Point Position	O		9.2.1.70A		–	
>UL Time Slot ISCP Info LCR	M		9.2.3.x8		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		–	
>Minimum DL TX Power	M		DL Power 9.2.2.10		–	
>UL PhysCH SF Variation	M		9.2.3.13B		–	
<b><u>&gt;UL CCTrCH Information LCR</u></b>		0..<maxnoof CCTrCHsLC R>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b><u>&gt;&gt;UL DPCH Information LCR</u></b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>UL Timeslot Information LCR	M		9.2.3.x5		–	
<b><u>&gt;DL CCTrCH Information LCR</u></b>		0..<maxnoof CCTrCHsLC R>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>&gt;&gt;DL DPCH Information LCR</b>		0..1			YES	ignore
>>>Repetition Period	M		9.2.3.7		=	
>>>Repetition Length	M		9.2.3.6		=	
>>>TDD DPCH Offset	M		9.2.3.8A		=	
>>>DL Timeslot Information LCR	M		9.2.3.x4		=	
>>>TSTD Indicator	M		9.2.3.x11		=	
<b>&gt;DCH Information</b>		0..1			YES-	ignore
>>Diversity Indication	M		9.2.2.7		=	
>>CHOICE Diversity Indication	M				=	
>>>Combining					=	
>>>>RL ID	M		9.2.1.49	Reference RL	=	
>>>Non Combining					=	
>>>>DCH Information Response	M		9.2.1.16A		=	
<b>&gt;DSCH Information Response LCR</b>		0.. <Maxnoof DSCHsLCR ≥			GLOBAL	ignore
>>DSCH ID	M		9.2.1.26A		=	
>>Transport Format Management	M		9.2.3.13		=	
>>DSCH Flow Control Information	M		9.2.1.26B		=	
>>CHOICE Diversity Indication	O				=	
>>>Non Combining					=	
>>>>Binding ID	O		9.2.1.3		=	
>>>>Transport Layer Address	O		9.2.1.62		=	
<b>&gt;USCH Information Response LCR</b>		0.. <Maxnoof USCHsLCR ≥			GLOBAL	ignore
>>USCH ID	M		9.2.3.14		=	
>>Transport Format Management	M		9.2.3.13		=	
>>CHOICE Diversity Indication	O				=	
>>>Non Combining					=	
>>>>BindingID	O		9.2.1.3		=	
>>>>Transport Layer Address	O		9.2.1.62		=	
>Neighbouring UMTS Cell Information-LCR	O		9.2.1.41A		==	!
>Neighbouring GSM Cell Information	O		9.2.1.41C		YES-	ignore-
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range Bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
MaxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for one UE for 3.84Mcps TDD.
MaxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
MaxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
MaxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.

/\* end of the changed chapter \*/

## 9.1.12 RADIO LINK RECONFIGURATION READY

/\* partly omitted \*/

## 9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
<b>RL Information Response</b>		0..1			YES	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	O		DL Power 9.2.2.10		–	
>Minimum DL TX Power	O		DL Power 9.2.2.10		–	
<b>&gt;UL CCTrCH Information</b>		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
<b>&gt;&gt;UL DPCH to be Added</b>		0..1		For 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>> Rx Timing Deviation	O		9.2.3.7A		–	
>>>UL Timeslot Information	M		9.2.3.13C		–	
<b>&gt;&gt;UL DPCH to be Added LCR</b>		0..1		For 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.8A		–	
>>>UL Timeslot Information LCR	M		9.2.3.x5		–	
<b>&gt;&gt;UL DPCH to be Modified</b>		0..1			YES	ignore
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.8A		–	
<b>&gt;&gt;&gt;UL Timeslot Information</b>		0 to <maxnoOfT S>		For 3.84Mcps TDD only	–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
<b>&gt;&gt;&gt;&gt;UL Code Information</b>		0 to <maxnoOfD PCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	O		9.2.3.8		–	
<b>&gt;&gt;&gt;&gt;UL Timeslot Information LCR</b>		0 to <maxnoOfT SLCR>		For 1.28Mcps TDD only	GLOBAL-	ignore



IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Time Slot LCR	M		9.2.3.x1		=	
>>>>Midamble Shift LCR	O		9.2.3.x3		=	
>>>>TFCI Presence	O		9.2.1.55		=	
>>>>UL Code Information LCR		0 to <maxnoOfD PCHLCR>			GLOBAL-	ignore
>>>>>DPCH ID	M		9.2.3.3		=	
>>>>>TDD Channelisation Code LCR	O		9.2.3.x2		=	
>>UL DPCH to be Deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		-	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		-	
>>DL DPCH to be Added		0..1		For 3.84Mcps TDD only	YES	ignore
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		-	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>DL Timeslot Information	M		9.2.3.2C		-	
>>DL DPCH to be Added LCR		0..1		For 1.28Mcps TDD only	YES	ignore
>>>Repetition Period	M		9.2.3.7		=	
>>>Repetition Length	M		9.2.3.6		=	
>>>TDD DPCH Offset	M		9.2.3.8A		=	
>>>DL Timeslot Information LCR	M		9.2.3.x4		=	
>>DL DPCH to be Modified		0..1			YES	ignore
>>>Repetition Period	O		9.2.3.7		-	
>>>Repetition Length	O		9.2.3.6		-	
>>>TDD DPCH Offset	O		9.2.3.8A		-	
>>>DL Timeslot Information		0 to <maxnoOfT S>		For 3.84Mcps TDD only	-	
>>>>Time Slot	M		9.2.1.56		-	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		-	
>>>>TFCI Presence	O		9.2.1.55		-	
>>>>DL Code Information		0 to <maxnoOfD PCH>			-	
>>>>>DPCH ID	M		9.2.3.3		-	
>>>>>TDD Channelisation Code	O		9.2.3.8		-	
>>>DL Timeslot Information LCR		0 to <maxnoOfT SLCR>		For 1.28Mcps TDD only	GLOBAL-	ignore
>>>>Time Slot LCR	M		9.2.3.x1		=	
>>>>Midamble Shift LCR	O		9.2.3.x3		=	
>>>>TFCI Presence	O		9.2.1.55		=	
>>>>DL Code		0 to			GLOBAL-	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>Information LCR</b>		<i>&lt;maxnoOfDPCHLCR&gt;</i>				
>>>>DPCH ID	M		9.2.3.3		=	
>>>>TDD Channelisation Code LCR	O		9.2.3.x2		=	
>>DL DPCH to be Deleted		0..<maxnoofDPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		-	
>DCH Information Response	O		9.2.1.16A		YES	ignore
>DSCH to be Added or Modified		0 .. <MaxnoofDSCHs>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.26A		-	
>>Transport Format Management	M		9.2.3.13		-	
>>DSCH Flow Control Information	M		9.2.1.26B		-	
>>Binding ID	O		9.2.1.3		-	
>>Transport Layer Address	O		9.2.1.62		-	
>USCH to be Added or Modified		0 .. <MaxnoofUSCHs>			GLOBAL	ignore
>>USCH ID	M		9.2.3.14		-	
>>Transport Format Management	M		9.2.3.13		-	
>>Binding ID	O		9.2.1.3		-	
>>Transport Layer Address	O		9.2.1.62		-	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
MaxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD.
MaxnoofDPCH	Maximum number of DPCH for a UE for 3.84Mcps TDD..
MaxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD..
MaxnoofDPCHLCR	Maximum number of DPCH for a UE for 1.28Mcps TDD..

/\* end of the changed chapter \*/

## 9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

/\* partly omitted \*/

9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.49		-	
<b>&gt;UL CTrCH Information</b>		0.. <maxnoof CTrCHs>			GLOBAL	reject
>>CTrCH ID	M		9.2.3.2		-	
<b>&gt;&gt;UL DPCH Information</b>		1			YES	notify
>>>Repetition Period	O		9.2.3.7		-	
>>>Repetition Length	O		9.2.3.6		-	
>>>TDD DPCH Offset	O		9.2.3.8A		-	
<b>&gt;&gt;&gt;UL Timeslot Information</b>	<b>e</b>	0 to <maxnoOf TS>		For 3.84Mcps TDD only	-	
>>>>Time Slot	M		9.2.1.56		-	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		-	
>>>>TFCI Presence	O		9.2.1.55		-	
>>>>UL Code Information	O		TDD UL Code Information 9.2.3.10A		-	
<b>&gt;&gt;&gt;UL Timeslot Information LCR</b>	<b>e</b>	0 to <maxnoOf TSLCR>		For 1.28Mcps TDD only	<b>GLOBAL-</b>	reject
>>>>Time Slot LCR	M		9.2.3.x1		=	
>>>>Midamble Shift LCR	O		9.2.3.x3		=	
>>>>TFCI Presence	O		9.2.1.55		=	
>>>>UL Code Information LCR	O		TDD UL Code Information LCR 9.2.3.x7		=	
<b>&gt;DL CTrCH Information</b>		0..<maxno ofCTrCH s>			GLOBAL	reject
>>CTrCH ID	M		9.2.3.2		-	
<b>&gt;&gt;DL DPCH Information</b>		1			YES	notify
>>>Repetition Period	O		9.2.3.7		-	
>>>Repetition Length	O		9.2.3.6		-	
>>>TDD DPCH Offset	O		9.2.3.8A		-	
<b>&gt;&gt;&gt;DL Timeslot Information</b>		0 to <maxnoOf TS>		For 3.84Mcps TDD only	-	
>>>>Time Slot	M		9.2.1.56		-	
>>>>Midamble Shift and Burst Type	O		9.2.3.4		-	
>>>>TFCI Presence	O		9.2.1.55		-	
>>>>DL Code Information	O		TDD DL Code Information 9.2.3.8C		-	
<b>&gt;&gt;&gt;DL Timeslot Information LCR</b>	<b>e</b>	0 to <maxnoOf TSLCR>		For 1.28Mcps TDD only	<b>GLOBAL-</b>	reject
>>>>Time Slot LCR	M		9.2.3.x1		=	
>>>>Midamble Shift LCR	O		9.2.3.x3		=	
>>>>TFCI Presence	O		9.2.1.55		=	

>>>>DL Code Information LCR	<u>Q</u>		TDD DL Code Information LCR 9.2.3.x6		=	
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Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CTrCH.
MaxnoofCTrCHs	Maximum number of CTrCHs for a UE.
MaxnoofTS	Maximum number of Timeslots for a UE for 3.84Mcps TDD.
MaxnoofTSLCR	Maximum number of Timeslots for a UE for 1.28Mcps TDD.

/\* end of the changed chapter \*/

## 9.1.40 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	ignore
Transaction ID	M		9.2.1.59		–	
<b>DL Timeslot ISCP Information</b>	<b>O</b>	<b>10</b> ..<maxno ofDLts>		<u>Mandatory For 3.84Mcps TDD only</u>	GLOBAL	ignore
>RL ID	M		9.2.1.49		–	
>Time slot	M		9.2.1.56		–	
>DL Timeslot ISCP	M		9.2.3.12			
<b>DL Time Slot ISCP Info LCR</b>	<b>O</b>		<b>9.2.3.x9</b>		<b>YES</b>	<b>reject</b>

Range bound	Explanation
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link for <u>3.84Mcps TDD</u>
<u>MaxnoofDLtsLCR</u>	Maximum number of Downlink time slots per Radio Link for <u>1.28Mcps TDD</u>

/\* end of the changed chapter \*/

### 9.2.1.19 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR Value	C <i>MeasValue</i>		INTEGER(0..63)	According to mapping in ref. [23] and [24]
>SIR Error Value	C <i>MeasValue</i>		INTEGER(0..125)	According to mapping in [23], {FDD only}
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0..127)	According to mapping in ref. [23] and [24]
>RSCP	C <i>MeasValue</i>		INTEGER(0..81)	According to mapping in ref. [24] {TDD only}
>Rx Timing Deviation	C <i>MeasValue</i>		INTEGER(0..2047)	According to mapping in [24] [3.84Mcps TDD only]
>Round Trip Time	C <i>MeasValue</i>		INTEGER(0..32767)	According to mapping in [23] [FDD only]

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

/\* partly omitted \*/

### 9.2.1.41A Neighbouring UMTS Cell Information

The *Neighbouring UMTS Cell Information* IE provides information for UMTS Cells that are neighbouring cells to a cell in the DRNC. The neighbouring cell information is provided for each RNC (including the DRNC) that has cells that are neighbouring cells to the cell in the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
<b>Neighbouring UMTS Cell Information</b>		<i>1..&lt;maxnoof neighbouring RNCs&gt;</i>			EACH	ignore
>RNC-Id	M		9.2.1.50		–	
>CN PS Domain Identifier	O		9.2.1.12		–	
>CN CS Domain Identifier	O		9.2.1.11		–	
>Neighbouring FDD Cell Information	O		9.2.1.41B		–	
>Neighbouring TDD Cell Information	O		9.2.1.41D	For 3.84Mcps TDD only	–	
>Neighbouring TDD Cell Information LCR	<u>O</u>		<u>9.2.3.x10</u>	For 1.28Mcps TDD only	<u>YES</u> –	<u>reject</u>

Range bound	Explanation
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs.

/\* end of the changed chapter \*/

### 9.2.1.54 Sync Case

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

- Case 1) SCH and PCCPCH allocated in a single TS#k
- Case 2) SCH allocated in two TS: TS#k and TS#k+8  
PCCPCH allocated in TS#k

[1.28Mcps TDD - There is no Sync Case indication needed for 1.28Mcps TDD. If the *Sync Case* IE must be included in a message from DRNC to SRNC used for 1.28Mcps TDD, the DRNC shall indicate ~~use~~ Sync Case 1 and the SRNC shall ~~do not ignore-evaluate~~ it.]

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

/\* end of the changed chapter \*/

### 9.2.3.7A Rx Timing Deviation

Measured Rx Timing Deviation as a basis for timing advance, either measured directly from a RACH burst, or calculated from the Rx Timing Deviation measurement on the USCH by adding the current Timing Advance value. For 1.28Mcps TDD this IE must be set to 0.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Rx Timing Deviation			INTEGER (0..127)	As specified in [5], ch. 6.2.7.6

/\* end of the changed chapter \*/

### 9.2.3.x1 Time Slot LCR

The Time Slot LCR represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel in 1.28Mcps TDD.

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

### 9.2.3.x2 TDD Channelisation Code LCR

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 1.28Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16 where in case of spreading factor 1, there is a choice between QPSK and 8PSK modulation.



<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
CHOICE SF				
>SF=1			Enumerated(QPSK, 8PSK,...)	Modulation options in contrast to 3.84Mcps TDD mode
>Otherwise				
>>TDD Channelisation Code			ENUMERATED ((1/1), (2/1), (2/2), (4/1),... (4/4), (8/1), (8/8), (16/1)... (16/16), ...)	

<u>CHOICE SF</u>	<u>Condition under which the given SF is chosen</u>
SF =1	"spreading factor" is set to 1
otherwise	"spreading factor" is set to a value distinct from 1

### 9.2.3.x3 Midamble shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

<u>IE/Group name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Midamble Allocation Mode	M		Enumerated (Default midamble, Common midamble, UE specific midamble)	
Midamble Shift	C-UE		Integer(0..15)	

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

### 9.2.3.x4 DL Timeslot Information LCR

The DL Timeslot Information LCR IE provides information for DL Timeslot to be established for 1.28Mcps TDD.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b>DL Timeslot Information LCR</b>		1 .. <maxnoof DLtsLCR>			=	
>Time Slot LCR	M		9.2.3.x1		=	
>Midamble Shift LCR	M		9.2.3.x3		=	
>TFCI Presence	M		9.2.1.57		=	
>TDD DL Code Information LCR	M		TDD DL Code Information 9.2.3.x6		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofDLtSLCR</u>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.

### 9.2.3.x5 UL Timeslot Information LCR

The *UL Timeslot Information LCR* IE provides information on the timeslot allocation for an UL DPCH.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>UL Timeslot Information LCR</u>		<u>1.. &lt;maxnoofULts LCR&gt;</u>			=	
<u>&gt;Time Slot LCR</u>	<u>M</u>		<u>9.2.3.x1</u>		=	
<u>&gt;Midamble Shift LCR</u>	<u>M</u>		<u>9.2.3.x3</u>		=	
<u>&gt;TFCI Presence</u>	<u>M</u>		<u>9.2.1.57</u>		=	
<u>&gt;TDD UL Code Information LCR</u>	<u>M</u>		<u>TDD UL Code Information 9.2.3.x7</u>			

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofULtsLCR</u>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD.

### 9.2.3.x6 TDD DL Code Information LCR

The *TDD DL Code Information LCR* IE provides DL Code information for the RL for 1.28Mcps TDD.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description s</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>TDD DL Code Information LCR</u>		<u>1.. &lt;maxnoOf DPCHLCR &gt;</u>			=	
<u>&gt;DPCH ID</u>	<u>M</u>		<u>9.2.3.5</u>		=	
<u>&gt;TDD Channelisation Code LCR</u>	<u>M</u>		<u>9.2.3.x2</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoOfDPCHLCR</u>	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD

### 9.2.3.x7 TDD UL Code Information LCR

The *TDD UL Code Information LCR* IE provides information for UL Code to be established for 1.28Mcps TDD.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b>TDD UL Code Information LCR</b>		<u>1.. &lt;maxnoOfDPCH LCR&gt;</u>			=	
>DPCH ID	<u>M</u>		<u>9.2.3.5</u>		=	
>TDD Channelisation Code LCR	<u>M</u>		<u>9.2.3.x2</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoOfDPCHLCR</u>	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD.

### 9.2.3.x8 UL Time Slot ISCP Info LCR

The *UL Time Slot ISCP Info LCR* IE provides information for UL Interference level for each time slot within the Radio Link for 1.28Mcps TDD.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b>UL Time Slot ISCP Info</b>		<u>1.. &lt;maxnoofULtsLCR&gt;</u>			=	
>Time Slot LCR	<u>M</u>		<u>9.2.3.x1</u>		=	
>UL Timeslot ISCP	<u>M</u>		<u>9.2.3.26A</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofULtsLCR</u>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD

### 9.2.3.x9 DL Time Slot ISCP Info LCR

The *DL Time Slot ISCP Info LCR* IE provides information for DL Interference level for each time slot within the Radio Link for 1.28Mcps TDD.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b>DL Time Slot ISCP Info LCR</b>		<u>1.. &lt;maxnoofULtsLCR&gt;</u>			=	
>Time Slot LCR	<u>M</u>		<u>9.2.3.x1</u>		=	
>DL Timeslot ISCP	<u>M</u>		<u>9.2.3.12</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofULtsLCR</u>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD

### 9.2.3.x10 Neighbouring TDD Cell Information LCR

The *Neighbouring TDD Cell Information LCR* IE provides information for 1.28Mcps TDD cells that are a neighbouring cells to a cell in the DRNC.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b>Neighbouring TDD Cell Information LCR</b>		<i>1..&lt;maxno ofLCRTDD neighbour s&gt;</i>			=	
>C-Id	M		9.2.1.6		=	
>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	=	
>Frame Offset	O		9.2.1.30		=	
>Cell Parameter ID	M		9.2.1.8		=	
>Time Slot LCR	M		9.2.3.x1		=	
>Block STTD Indicator	M		9.2.1.4A		=	
>Cell Individual Offset	O		9.2.1.7		=	
>DPCH Constant Value	O		9.2.1.23		=	
>PCCPCH Power	O		9.2.1.43		=	

<u>Range bound</u>	<u>Explanation</u>
MaxnoofLCRTDDneighboursLCR	Maximum number of neighbouring LCR TDD cell for one cell.

### 9.2.3.x11 TSTD Indicator

Indicates if TSTD shall be active or not for the DL DPCH.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
TSTD Indicator			ENUMERATED(active, inactive)	

### 9.2.3.x12 TSTD Support Indicator

Indicates if UE support TSTD or not for DL DPCH.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
TSTD Support Indicator			ENUMERATED(TSTD supported, TSTD not supported)	

```

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Partly omitted
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.

```

### 9.3.3 PDU Definitions

```

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
  Active-Pattern-Sequence-Information,
  AllocationRetentionPriority,
  AllowedQueuingTime,
  AlphaValue,
  BLER,
  Block-STTD-Indicator,
  BindingID,
  C-ID,
  C-RNTI,
  CCTrCH-ID,
  CFN,
  ClosedLoopModel-SupportIndicator,
  ClosedLoopMode2-SupportIndicator,
  Closedlooptimingadjustmentmode,
  CN-CS-DomainIdentifier,
  CN-PS-DomainIdentifier,
  CNDomainType,
  Cause,
  CellParameterID,
  ChipOffset,

```

CriticalityDiagnostics,  
D-RNTI,  
D-RNTI-ReleaseIndication,  
DCH-FDD-Information,  
DCH-ID,  
DCH-InformationResponse,  
DCH-TDD-Information,  
DL-DPCH-SlotFormat,  
DL-TimeslotISCP,  
DL-Power,  
DL-ScramblingCode,  
DL-Timeslot-Information,  
DL-TimeslotLCR-Information,  
DL-TimeSlot-ISCP-Info,  
DL-TimeSlot-ISCP-LCR-Info,  
DPCH-ID,  
DRACControl,  
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DedicatedMeasurementValueInformation,  
DiversityControlField,  
DiversityMode,  
DSCH-FDD-Information,  
DSCH-FDD-InformationResponse,  
DSCH-FlowControlInformation,  
DSCH-FlowControlItem,  
DSCH-TDD-Information,  
DSCH-ID,  
SchedulingPriorityIndicator,  
FACH-FlowControlInformation,  
FDD-DCHs-to-Modify,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,  
FrameHandlingPriority,  
FrameOffset,  
GA-AccessPointPosition,  
GA-Cell,  
IMSI,  
InnerLoopDLPCStatus,  
L3-Information,  
LimitedPowerIncrease,  
MaximumAllowedULTxPower,  
MaxNrDLPhysicalchannels,  
MaxNrOfUL-DPCHs,  
MaxNrTimeslots,  
MaxNrULPhysicalchannels,  
MeasurementFilterCoefficient,  
MeasurementID,

MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftLCR,  
MinimumSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
Neighbouring-GSM-CellInformation,  
Neighbouring-UMTS-CellInformation,  
NrOfDLchannelisationcodes,  
PagingCause,  
PagingRecordType,  
PDSCHCodeMapping,  
PayloadCRC-PresenceIndicator,  
PowerAdjustmentType,  
PowerOffset,  
PrimaryCCPCH-RSCP,  
PrimaryCPICH-EcNo,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
PunctureLimit,  
QE-Selector,  
RANAP-RelocationInformation,  
RB-Info,  
RL-ID,  
RL-Set-ID,  
RNC-ID,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
Received-total-wide-band-power,  
RxTimingDeviationForTA,  
S-FieldLength,  
S-RNTI,  
SCH-TimeSlot,  
SAI,  
SN,  
Secondary-CCPCH-Info,  
SSDT-CellID,  
SSDT-CellID-Length,  
SSDT-Indication,  
SSDT-SupportIndicator,  
STTD-Indicator,  
STTD-SupportIndicator,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
SecondaryCCPCH-SlotFormat,  
SyncCase,  
TDD-ChannelisationCode,  
TDD-DCHs-to-Modify,  
TDD-DL-Code-Information,  
TDD-DPCHOffset,

```

TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TDD-ChannelisationCodeLCR,
TDD-DL-Code-LCR-Information,
TDD-UL-Code-Information,
TDD-UL-Code-LCR-Information,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
TimeSlotLCR,
TimingAdvanceApplied,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-ScramblingCode-Information,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TSTD-Indicator,
TSTD-Support-Indicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-PhysCH-SF-Variation,
UL-ScramblingCode,
UL-Timeslot-Information,
UL-TimeslotLCR-Information,
UL-TimeSlot-ISCP-Info,
UL-TimeSlot-ISCP-LCR-Info,
URA-ID,
URA-Information,
USCH-ID,
USCH-Information
FROM RNSAP-IES

```

```

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

```



RNSAP-PROTOCOL-IES-PAIR  
FROM RNSAP-Containers

maxNoOfDSCHs,  
maxNoOfUSCHs,  
maxNrOfCCTrCHs,  
maxNrOfDCHs,  
maxNrOfTS,  
maxNrOfDPCHs,  
maxNrOfRLs,  
maxNrOfRLSets,  
maxNrOfRLs-1,  
maxNrOfRLs-2,  
maxNrOfULTs,  
maxNrOfDLTs,  
maxNoOfDSCHsLCR,  
maxNoOfUSCHsLCR,  
maxNrOfCCTrCHsLCR,  
maxNrOfTsLCR,  
maxNrOfDLTsLCR,  
maxNrOfULTsLCR,  
maxNrOfDPCHsLCR,  
maxNrOfLCRTDDNeighboursPerRNC,

id-Active-Pattern-Sequence-Information,  
id-AdjustmentRatio,  
id-AllowedQueuingTime,  
id-BindingID,  
id-C-ID,  
id-C-RNTI,  
id-CFN,  
id-CFNReportingIndicator,  
id-CN-CS-DomainIdentifier,  
id-CN-PS-DomainIdentifier,  
id-Cause,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-ClosedLoopModel-SupportIndicator,  
id-ClosedLoopMode2-SupportIndicator,  
id-CNOriginatedPage-PagingRqst,  
id-CriticalityDiagnostics,  
id-D-RNTI,  
id-D-RNTI-ReleaseIndication,  
id-DCHs-to-Add-FDD,  
id-DCHs-to-Add-TDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-FDD-Information,

id-DCH-TDD-Information,  
id-FDD-DCHs-to-Modify,  
id-TDD-DCHs-to-Modify,  
id-DCH-InformationResponse,  
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,  
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,  
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-FDD-DL-CodeInformation,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRspTDD,  
id-DL-DPCH-InformationItem-RL-SetupRspTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,  
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,  
id-DL-Physical-Channel-Information-RL-SetupRqstTDD,  
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-DSCHs-to-Add-FDD,  
id-DSCHs-to-Add-TDD,  
id-DSCH-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Delete-RL-ReconfPrepFDD,  
id-DSCH-FDD-Information,  
id-DSCH-InformationListIE-RL-AdditionRspTDD,  
id-DSCH-InformationListIEs-RL-SetupRspTDD,  
id-DSCH-TDD-Information,  
id-DSCH-FDD-InformationResponse,  
id-DSCH-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-Modify-RL-ReconfPrepFDD,  
id-DSCHsToBeAddedOrModified-FDD,  
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,  
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD,

id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,  
id-GA-AccessPointPosition,  
id-GA-Cell,  
id-IMSI,  
id-InnerLoopDLPCStatus,  
id-L3-Information,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-Neighbouring-GSM-CellInformation,  
id-PagingArea-PagingRqst,  
id-FACH-FlowControlInformation,  
id-PowerAdjustmentType,  
id-ProcedureScope-DL-PC-Rqst,  
id-PropagationDelay,  
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-PreemptRequiredInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-InformationList-RL-DeletionRqst,  
id-RL-InformationList-RL-PreemptRequiredInd,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-ReconfReadyTDD,  
id-RL-InformationResponse-RL-ReconfRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReadyFDD,  
id-RL-InformationResponseItem-RL-ReconfRspFDD,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReadyFDD,  
id-RL-InformationResponseList-RL-ReconfRspFDD,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-ReconfigurationFailure-RL-ReconfFail,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rqst,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-Information-RL-FailureInd,

id-RL-Set-Information-RL-RestoreInd,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-RxTimingDeviationForTA,  
id-S-RNTI,  
id-SAI,  
id-SRNC-ID,  
id-STTD-SupportIndicator,  
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,  
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,  
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,  
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,  
id-timeSlot-ISCPList-DL-PC-Rqst-TDD,  
id-TransportBearerID,  
id-TransportBearerRequestIndicator,  
id-TransportLayerAddress,  
id-UC-ID,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,  
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,  
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,  
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,  
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,  
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,  
id-UL-DPCH-InformationItem-RL-SetupRspTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,  
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,  
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,  
id-UL-Physical-Channel-Information-RL-SetupRqstTDD,  
id-UL-SIRTarget,  
id-URA-Information,  
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,  
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,  
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,  
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,  
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,  
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,

```

id-USCHs-to-Add,
id-USCH-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationListIE-RL-AdditionRspTDD,
id-USCH-InformationListIEs-RL-SetupRspTDD,
id-USCH-Information,
id-USCH-ModifyList-RL-ReconfPrepTDD,
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
id-neighbouring-LCR-TDD-CellInformation,
id-DL-Timeslot-ISCPLCR-Information-RL-SetupRqstTDD,
id-RL-LCR-InformationResponse-RL-SetupRspTDD,
id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD,
id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,
id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD,
id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD,
id-USCH-LCR-InformationListIEs-RL-SetupRspTDD,
id-DL-Timeslot-ISCPLCR-Information-RL-AdditionRqstTDD,
id-RL-LCR-InformationResponse-RL-AdditionRspTDD,
id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD,
id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD,
id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD,
id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD,
id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD,
id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD,
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-Timeslot-LCR-InformationList-RL-ReconfReadyTDD,
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD,
id-DL-Timeslot-LCR-InformationList-RL-ReconfReadyTDD,
id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD,
id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD,
id-timeSlot-LCR-ISCPList-DL-PC-Rqst-TDD,
id-TSTD-Support-Indicator-RL-SetupRqstTDD

```

FROM RNSAP-Constants;

```

.
.
.
Partly omitted
.
.
.

```

```

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

```

```

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

```

```

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

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

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

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

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

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {UL-CCTrCH-
InformationItemIEs-RL-SetupRqstTDD} }

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

UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {

```

```

    cCtRCH-ID          CcTtRCH-ID,
    ul-TFCS            TFCS,
    tFCI-Coding        TFCI-Coding,
    ul-PunctureLimit   PunctureLimit,
    iE-Extensions      ProtocolExtensionContainer { {UL-CcTtRCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-CcTtRCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCcTtRCHs)) OF ProtocolIE-Single-Container { {DL-CcTtRCH-
InformationItemIEs-RL-SetupRqstTDD} }

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

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

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

CcTtRCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCcTtRCHs)) OF CcTtRCH-TPCItem-RL-SetupRqstTDD

CcTtRCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCtRCH-ID          CcTtRCH-ID,
    iE-Extensions      ProtocolExtensionContainer { { CcTtRCH-TPCItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

CcTtRCH-TPCItem-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,
    dL-TimeSlot-ISCP   DL-TimeSlot-ISCP-Info OPTIONAL
    --for 3.84Mcps TDD only,

```

```

    iE-Extensions          ProtocolExtensionContainer { {RL-Information-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

RL-Information-RL-SetupRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  optional { ID id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD CRITICALITY reject EXTENSION DL-Timeslot-ISCP-LCR-Information PRESENCE },
  optional { ID id-TSTD-Support-Indicator-RL-SetupRqstTDD CRITICALITY ignore EXTENSION TSTD-Support-Indicator PRESENCE },
  --for 1.28Mcps TDD only
  ...
}

```

```

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

```

.  
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**Partly omitted**

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.  
.

```

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

```

```

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

```

```

RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatoryoptional }
  --For 3.84Mcps TDD only |
  { ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

```

```

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

```



```

gA-AccessPointPosition      GA-AccessPointPosition  OPTIONAL,
ul-TimeSlot-ISCP-Info       UL-TimeSlot-ISCP-Info,
maxUL-SIR                   UL-SIR,
minUL-SIR                   UL-SIR,
maximumAllowedULTxPower     MaximumAllowedULTxPower,
maximumDLTxPower           DL-Power,
minimumDLTxPower           DL-Power,
timingAdvanceApplied        TimingAdvanceApplied,
alphaValue                  AlphaValue,
ul-PhysCH-SF-Variation      UL-PhysCH-SF-Variation,
ul-CCTrCHInformation        UL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dl-CCTrCHInformation        DL-CCTrCHInformationList-RL-SetupRspTDD  OPTIONAL,
dCH-InformationResponse     DCH-InformationResponseList-RL-SetupRspTDD  OPTIONAL,
dsch-InformationResponse    DSCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
usch-InformationResponse    USCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
neighbouring-UMTS-CellInformation  Neighbouring-UMTS-CellInformation  OPTIONAL,
neighbouring-GSM-CellInformation  Neighbouring-GSM-CellInformation-RL-SetupRspTDD  OPTIONAL,
iE-Extensions               ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  repetitionPeriod        RepetitionPeriod,

```

```

    repetitionLength      RepetitionLength,
    tDD-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-Information UL-Timeslot-Information,
    iE-Extensions         ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

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

Neighbouring-GSM-CellInformation-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationItem-RL-SetupRspTDD }}

Neighbouring-GSM-CellInformationItem-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-GSM-CellInformation  CRITICALITY ignore  TYPE Neighbouring-GSM-CellInformation PRESENCE mandatory }
}

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

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```

    { ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD PRESENCE
    mandatory } optional,
    --For 1.28Mcps TDD only
    ...
}

RL-LCR-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID RL-ID,
    uRA-Information URA-Information,
    sAI SAI,
    gA-Cell GA-Cell OPTIONAL,
    uTRAN-AccessPointPosition UTRAN-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR UL-SIR,
    minUL-SIR UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    maximumDLTxPower DL-Power,
    minimumDLTxPower DL-Power,
    ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
    ul-LCR-CCTrCHInformation UL-LCR-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dl-LCR-CCTrCHInformation DL-LCR-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    dsch-LCR-InformationResponse DSCH-LCR-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-LCR-InformationResponse USCH-LCR-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

```

```

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

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

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

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

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

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

DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD

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

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

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

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

DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-LCR-Information DL-Timeslot-LCR-Information,

```

```

tSTD-Indicator          TSTD-Indicator,
iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD

DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
dsch-ID          DSCH-ID,
dSCH-FlowControlInformation DSCH-FlowControlInformation,
bindingID       BindingID OPTIONAL,
transportLayerAddress TransportLayerAddress OPTIONAL,
transportFormatManagement TransportFormatManagement,
iE-Extensions   ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD

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

```

```

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

```

```

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Partly omitted

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```

-- *****
--
-- 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,
  dL-TimeSlot-ISCP-Info DL-TimeSlot-ISCP-Info  OPTIONAL,
  --for 3.84Mcps TDD only,
  IE-Extensions        ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

RL-Information-RL-AdditionRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD  CRITICALITY reject  EXTENSION  DL-Timeslot-ISCP-LCR-Information  PRESENCE
  optional  },
  --for 1.28Mcps TDD only
  ...
}

```

```

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

```

```

}
.
.
.
Partly omitted
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.
.
-- *****
--
-- 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 optional mandatory }
    |
    --For 3.84Mcps TDD only |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-Information      URA-Information,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition  GA-AccessPointPosition  OPTIONAL,
    ul-TimeSlot-ISCP-Info  UL-TimeSlot-ISCP-Info,
    minUL-SIR            UL-SIR,
    maxUL-SIR            UL-SIR,
    maximumAllowedULTxPower  MaximumAllowedULTxPower,
    maximumDLTxPower     DL-Power,
    minimumDLTxPower     DL-Power,
    timingAdvanceApplied  TimingAdvanceApplied,
    alphaValue           AlphaValue,
    ul-PhysCH-SF-Variation  UL-PhysCH-SF-Variation,
    ul-CCTrCHInformation  UL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    dl-CCTrCHInformation  DL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    dCH-Information      DCH-Information-RL-AdditionRspTDD    OPTIONAL,
    dSCH-InformationResponse  DSCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    uSCH-InformationResponse  USCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    neighbouring-UMTS-CellInformation  Neighbouring-UMTS-CellInformation    OPTIONAL,
    neighbouring-GSM-CellInformation  Neighbouring-GSM-CellInformation-RL-AdditionRspTDD    OPTIONAL,
    IE-Extensions        ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
}

```



```

}
...
}
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE
mandatory }
}
UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
cCTrCH-ID CTrCH-ID,
ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
}
}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tDD-DPCHOffset TDD-DPCHOffset,
uL-Timeslot-Information UL-Timeslot-Information,
iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE
mandatory }
}

```

```

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

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

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

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

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

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

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

DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    iE-Extensions            ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                      RL-ID,

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```

    iE-Extensions          ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

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

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE USCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory }
}

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

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

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

Neighbouring-GSM-CellInformation-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD }}

Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-GSM-CellInformation    CRITICALITY ignore    TYPE    Neighbouring-GSM-CellInformation    PRESENCE mandatory }
}

RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-AdditionRspTDD    CRITICALITY ignore    EXTENSION    RL-LCR-InformationResponse-RL-AdditionRspTDD
    PRESENCE mandatoryoptionalmandatory },
    --For 1.28Mcps TDD only
    ...
}

RL-LCR-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uRA-Information        URA-Information,
    sAI                SAI,
    gA-Cell                GA-Cell    OPTIONAL,
    uTRAN-AccessPointPosition    UTRAN-AccessPointPosition    OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info    UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR                UL-SIR,
    minUL-SIR                UL-SIR,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    maximumDLTxPower        DL-Power,
    minimumDLTxPower        DL-Power,
    ul-PhysCH-SF-Variation    UL-PhysCH-SF-Variation,
    ul-CCTrCH-LCR-Information    UL-CCTrCH-LCR-InformationList-RL-SetupRspTDD    OPTIONAL,
    dl-CCTrCH-LCR-Information    DL-CCTrCH-LCR-InformationList-RL-SetupRspTDD    OPTIONAL,
    dCH-InformationResponse    DCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    dsch-LCR-InformationResponse    DSCH-LCR-InformationResponse-RL-SetupRspTDD    OPTIONAL,
    usch-LCR-InformationResponse    USCH-LCR-InformationResponse-RL-SetupRspTDD    OPTIONAL,
    neighbouring-UMTS-CellInformation    Neighbouring-UMTS-CellInformation    OPTIONAL,
    neighbouring-GSM-CellInformation    Neighbouring-GSM-CellInformation    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } }    OPTIONAL,
    ...
}

```

```

}
RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD }}
UL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD
  PRESENCE mandatory }
}
UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  cCTrCH-ID CTrCH-ID,
  ul-DPCH-LCR-Information UL-DPCH-LCR-InformationList-RL-AdditionRspTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD} }
UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
  mandatory }
}
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  uL-TimeslotLCR-Information UL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer { {UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD}}
DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD PRESENCE
  mandatory }
}

```

DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD

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

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

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

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

DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
repetitionPeriod RepetitionPeriod,  
repetitionLength RepetitionLength,  
tDD-DPCHOffset TDD-DPCHOffset,  
dL-TimeslotLCR-Information DL-TimeslotLCR-Information,  
tSTD-Indicator TSTD-Indicator,  
iE-Extensions ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,  
...  
}

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

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

DCH-InformationResponseListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {  
{ ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }  
}

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

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

DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-AdditionRspTDD

DSCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {  
dsch-ID DSCH-ID,  
dSCH-FlowControlInformation DSCH-FlowControlInformation,

```

bindingID          BindingID OPTIONAL,
transportLayerAddress TransportLayerAddress OPTIONAL,
transportFormatManagement TransportFormatManagement,
iE-Extensions      ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

USCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-AdditionRspTDD

USCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
usch-ID          USCH-ID,
transportFormatManagement TransportFormatManagement,
diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
iE-Extensions      ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

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

Neighbouring-GSM-CellInformation-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD }}

Neighbouring-GSM-CellInformationItem-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-Neighbouring-GSM-CellInformation CRITICALITY ignore TYPE Neighbouring-GSM-CellInformation PRESENCE mandatory }
}

```

.  
.  
.  
**Partly omitted**

.  
.  
.  
-- \*\*\*\*\*  
--  
-- RADIO LINK RECONFIGURATION READY TDD  
--  
-- \*\*\*\*\*

```

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

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

RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
  rL-ID                RL-ID,
  max-UL-SIR           UL-SIR          OPTIONAL,
  min-UL-SIR           UL-SIR          OPTIONAL,
  maximumDLTxPower    DL-Power       OPTIONAL,
  minimumDLTxPower    DL-Power       OPTIONAL,
  ul-CCTrCH-Information
  DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
  dl-CCTrCH-Information
  DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
  dSCHsToBeAddedOrModified
  DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
  uSCHsToBeAddedOrModified
  USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
  IE-Extensions       ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

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

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  ul-DPCH-AddInformation
  UL-DPCH-InformationAddList-RL-ReconfReadyTDD          OPTIONAL
  --For 3.84Mcps TDD only,
  ul-DPCH-ModifyInformation
  UL-DPCH-InformationModifyList-RL-ReconfReadyTDD          OPTIONAL
  --For 3.84Mcps TDD only,
  ul-DPCH-DeleteInformation
  UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD          OPTIONAL,
  IE-Extensions     ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

```



```

    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION UL-DPCH-LCR-InformationAddList-RL-ReconfReadyTDD
      PRESENCE optionalmandatory },
  --For 1.28Mcps TDD only
  ...
}

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

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

UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  uL-TimeslotLCR-Info UL-TimeslotLCR-Info,
  iE-Extensions ProtocolExtensionContainer { {UL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tDD-DPCHOffset TDD-DPCHOffset,
  rxTimingDeviationForTA RxTimingDeviationForTA OPTIONAL,
  uL-Timeslot-Information UL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

```

```

}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tDD-DPCHOffset            TDD-DPCHOffset            OPTIONAL,
    uL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD  OPTIONAL
}
--For 3.84Mcps TDD only,
    iE-Extensions            ProtocolExtensionContainer { {UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-TimeslotLCR-InformationList-RL-ReconfReadyTDD  CRITICALITY ignore  EXTENSION  UL-TimeslotLCR-InformationList-RL-ReconfReadyTDD
    PRESENCE optional },
}
--For 1.28Mcps TDD only
    ...
}

UL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTSLCR)) OF UL-TimeslotLCR-InformationModifyItem-RL-
ReconfReadyTDD

UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlotLCR              TimeSlotLCR,
    midambleShiftLCR        MidambleShiftLCR          OPTIONAL,
    tFCI-Presence            TFCI-Presence              OPTIONAL,
    tDD-uL-Code-Information  TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {UL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHLCR)) OF TDD-UL-Code-InformationModifyItem-RL-
ReconfReadyTDD

TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                  DPCH-ID,
    tDD-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR          OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTTS)) OF UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {

```

```

    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType          OPTIONAL,
    tFCI-Presence           TFCI-Presence                       OPTIONAL,
    uL-Code-Information     TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-UL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD

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

TDD-UL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

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

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

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

```

```

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCTrCH-ID          CCTrCH-ID,
  dl-DPCH-AddInformation  DL-DPCH-InformationAddList-RL-ReconfReadyTDD      OPTIONAL
--For 3.84Mcps TDD only,
  dl-DPCH-ModifyInformation  DL-DPCH-InformationModifyList-RL-ReconfReadyTDD      OPTIONAL
--For 3.84Mcps TDD only,
  dl-DPCH-DeleteInformation  DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD      OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD  CRITICALITY ignore      EXTENSION  DL-DPCH-LCR-InformationAddList-RL-
ReconfReadyTDD      PRESENCE optionalmandatory },
--For 1.28Mcps TDD only
  ...
}

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

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

DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tDD-DPCHOffset        TDD-DPCHOffset,
  dL-TimeslotLCR-Info    DL-TimeslotLCR-Info,
  iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-LCR-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

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

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

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

DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tDD-DPCHOffset        TDD-DPCHOffset,
  dL-Timeslot-Information  DL-Timeslot-Information,
  iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
}

```

```

}
...
}
DL-DPCH-InformationAddItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}
DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
PRESENCE mandatory }
}
DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod OPTIONAL,
repetitionLength RepetitionLength OPTIONAL,
tDD-DPCHOffset TDD-DPCHOffset OPTIONAL,
dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD OPTIONAL
--For 3.84Mcps TDD only,
iE-Extensions ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}
DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
{ ID id-DL-TimeslotLCR-InformationList-RL-ReconfReadyTDD CRITICALITY ignore EXTENSION DL-TimeslotLCR-InformationList-RL-ReconfReadyTDD
PRESENCE optional },
--For 1.28Mcps TDD only
...
}
DL-TimeslotLCR-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTSLCR)) OF DL-TimeslotLCR-InformationModifyItem-RL-
ReconfReadyTDD
DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
timeSlotLCR TimeSlotLCR,
midambleShiftLCR MidambleShiftLCR OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
tDD-dL-Code-LCR-Information TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}
TDD-DL-Code-LCR-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHLCR)) OF TDD-DL-Code-LCR-InformationModifyItem-RL-
ReconfReadyTDD
TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
dPCH-ID DPCH-ID,
tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {TDD-DL-Code-LCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

```

```

TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-TimeslotLCR-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence            TFCI-Presence OPTIONAL,
    dL-Code-Information      TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-DL-Code-InformationModifyList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD

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

TDD-DL-Code-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

```

```

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

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

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

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

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

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

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

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

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Single-Container { {USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }
USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE
mandatory }
}

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

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

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

```

```

}
RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
.
.
.
Partly omitted
.
.
.
-- *****
--
-- DOWNLINK POWER TIMESLOT CONTROL REQUEST TDD
--
-- *****

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

DL-PowerTimeslotControlRequest-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-timeSlot-ISCPList-DL-PC-Rqst-TDD    CRITICALITY ignore    TYPE TimeSlot-ISCPList-DL-PC-Rqst-TDD    PRESENCE mandatory}
  --For 3.84Mcps TDD only,
  ...
}

TimeSlot-ISCPList-DL-PC-Rqst-TDD ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPItem-DL-PC-Rqst-TDD

Timeslot-ISCPItem-DL-PC-Rqst-TDD ::= SEQUENCE {
  rL-ID                RL-ID,
  timeSlot              TimeSlot,
  dl-TimeSlotISCP      DL-TimeSlotISCP,
  iE-Extensions        ProtocolExtensionContainer { { Timeslot-ISCPItem-DL-PC-Rqst-TDD-ExtIEs} } OPTIONAL,
  ...
}

Timeslot-ISCPItem-DL-PC-Rqst-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-PowerTimeslotControlRequest-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD    CRITICALITY ignore    EXTENSION    TimeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD    PRESENCE
  optionalmandatory},
  --For 1.28Mcps TDD only
  ...
}

```



```
TimeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD ::= SEQUENCE (SIZE (0..maxNrOfDLsLCR)) OF Timeslot-ISCP-LCR-Item-DL-PC-Rqst-TDD
```

```
Timeslot-ISCP-LCR-Item-DL-PC-Rqst-TDD ::= SEQUENCE {
  rL-ID RL-ID,
  timeSlotLCR TimeSlotLCR,
  dl-TimeslotISCP DL-TimeslotISCP,
  iE-Extensions ProtocolExtensionContainer { { Timeslot-ISCP-LCR-Item-DL-PC-Rqst-TDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
Timeslot-ISCP-LCR-Item-DL-PC-Rqst-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
.
.
.
```

Partly omitted

```
.
.
.
```

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

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

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

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

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

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

```

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

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

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

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

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

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

UL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength          RepetitionLength          OPTIONAL,
  tDD-DPCHOffset            TDD-DPCHOffset            OPTIONAL,
  uL-Timeslot-InformationList-PhyChReconfRqstTDD        UL-Timeslot-InformationList-PhyChReconfRqstTDD  OPTIONAL
  --For 3.84Mcps TDD only,
  iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-TimeslotLCR-InformationList-PhyChReconfRqstTDD  CRITICALITY reject notify EXTENSION UL-TimeslotLCR-InformationList-
  PhyChReconfRqstTDD      PRESENCE optional },
  --For 1.28Mcps TDD only
  ...
}

UL-TimeslotLCR-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTSLCR)) OF UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD

UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  timeSlotLCR                TimeSlotLCR,
  midambleShiftLCR           MidambleShiftLCR          OPTIONAL,
  tFCI-Presence               TFCI-Presence             OPTIONAL,
  uL-Code-LCR-Information     TDD-UL-Code-LCR-Information  OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { {UL-TimeslotLCR-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

}
DL-DPCH-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-TimeslotLCR-InformationList-PhyChReconfRgstTDD CRITICALITY rejectNotify EXTENSION DL-TimeslotLCR-InformationList-
  PhyChReconfRgstTDD PRESENCE optional },
  --For 1.28Mcps TDD only
  ...
}
DL-TimeslotLCR-InformationList-PhyChReconfRgstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTSLCR)) OF DL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD
DL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE {
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  dL-Code-Information TDD-DL-Code-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-TimeslotLCR-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-Timeslot-InformationList-PhyChReconfRgstTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem-PhyChReconfRgstTDD
DL-Timeslot-InformationItem-PhyChReconfRgstTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  dL-Code-Information TDD-DL-Code-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-Timeslot-InformationItem-PhyChReconfRgstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
PhysicalChannelReconfigurationRequestTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
.
.
.
Partly omitted
.
.
.

```

### 9.3.4 Information Element Definitions

```

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

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.
.
Partly omitted
.
.
.

-- D
DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList       DCH-Specific-FDD-InformationList,
    iE-Extensions                     ProtocolExtensionContainer { {DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
    ...
}

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

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

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

```

```

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

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

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

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

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

DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

DCH-TDD-InformationItem ::= SEQUENCE {
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  ul-FP-Mode UL-FP-Mode,
  toAWS ToAWS,
  toAWE ToAWE,
  dCH-SpecificInformationList DCH-Specific-TDD-InformationList,
  iE-Extensions ProtocolExtensionContainer { {DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
  ...
}

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

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

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

```

```

}
...
}
DCH-Specific-TDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DedicatedMeasurementType ::= ENUMERATED {
  sir,
  sir-error,
  transmitted-code-power,
  rSCP,
  rx-timing-deviation,
  round-trip-time,
  ...
}
DedicatedMeasurementValue ::= CHOICE {
  sIR-Value          SIR-Value,
  sIR-ErrorValue    SIR-Error-Value,
  transmittedCodePowerValue Transmitted-Code-Power-Value,
  rSCP              RSCP-Value, -- TDD only
  rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only
  roundTripTime     Round-Trip-Time-Value, -- FDD only
  ...
}
DedicatedMeasurementValueInformation ::= CHOICE {
  measurementAvailable      DedicatedMeasurementAvailable,
  measurementnotAvailable   DedicatedMeasurementnotAvailable
}
DedicatedMeasurementAvailable ::= SEQUENCE {
  dedicatedmeasurementValue    DedicatedMeasurementValue,
  cFN                          CFN OPTIONAL,
  ie-Extensions                ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs} } OPTIONAL,
  ...
}
DedicatedMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DedicatedMeasurementnotAvailable ::= NULL
DeltaSIR ::= INTEGER (0..30)
-- Step 0.1 dB, Range 0..3 dB.
DiversityControlField ::= ENUMERATED {
  may,
  must,
  must-not
}

```

```

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closedLoopModel,
    closedLoopMode2,
    ...
}

DL-DPCH-SlotFormat ::= INTEGER (0..16,...)

DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

D-RNTI ::= INTEGER (0..1048575)

D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}

DL-ScramblingCode ::= INTEGER (0..15)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-Timeslot-Information ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem

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

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

DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF DL-TimeslotLCR-InformationItem

DL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR TimeSlotLCR,
    midambleShiftLCR MidambleShiftLCR,
    tFCI-Presence TFCI-Presence,
    tDD-dL-Code-LCR-Information TDD-DL-Code-LCR-Information,
    iE-Extensions ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} } OPTIONAL,

```



```

    ...
  }
  DL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  DL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF DL-TimeSlot-ISCP-InfoItem
  DL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot          TimeSlot,
    dL-TimeslotISCP   DL-TimeslotISCP,
    iE-Extensions     ProtocolExtensionContainer { { DL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    ...
  }
  DL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  DL-Timeslot-ISCP-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-TimeSlot-ISCP-LCR-InfoItem
  DL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR          TimeSlotLCR,
    dL-TimeslotISCP     DL-TimeslotISCP,
    iE-Extensions       ProtocolExtensionContainer { { DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } } OPTIONAL,
    ...
  }
  DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
  }
  DL-TimeslotISCP ::= INTEGER (0..91)
  -- According to mapping in [24]
  Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    ...
  }
  DPCH-ID ::= INTEGER (0..239)
  DPCHConstantValue ::= INTEGER (-10..10)
  -- Unit dB, Step 1dB
  DRACControl ::= ENUMERATED {
    requested,
    not-requested
  }

```

```

DRXCycleLengthCoefficient ::= INTEGER (3..9)
-- See in [16]

DSCH-FDD-Information ::= SEQUENCE {
    dsch-Specific-Information DSCH-Specific-FDD-Item,
    pdSCH-RL-ID               RL-ID,
    tFCS                      TFCS,
    iE-Extensions             ProtocolExtensionContainer { {DSCH-FDD-Information-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Specific-FDD-Item ::= SEQUENCE {
    dsch-ID                   DSCH-ID,
    trChSourceStatisticsDescriptor TrCh-SrcStatisticsDescr,
    transportFormatSet        TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                      BLER,
    iE-Extensions             ProtocolExtensionContainer { {DSCH-Specific-FDD-Item-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Specific-FDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-FDD-InformationResponse ::= SEQUENCE {
    dsch-Specific-InformationResponse DSCH-Specific-FDD-InformationResponse,
    pdSCHCodeMapping                 PDSCHCodeMapping,
    iE-Extensions                     ProtocolExtensionContainer { { DSCH-FDD-InformationResponse-ExtIEs} } OPTIONAL,
    ...
}

DSCH-FDD-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Specific-FDD-InformationResponse ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-Specific-FDD-Response-Item

DSCH-Specific-FDD-Response-Item ::= SEQUENCE {
    dsch-ID                   DSCH-ID,
    dsch-FlowControlInformation DSCH-FlowControlInformation,
    bindingID                 BindingID OPTIONAL,
    transportLayerAddress      TransportLayerAddress OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { {DSCH-Specific-FDD-Response-Item-ExtIEs} } OPTIONAL,
    ...
}

```

```

DSCH-Specific-FDD-Response-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-FlowControlInformation ::= SEQUENCE (SIZE(1..16)) OF DSCH-FlowControlItem

DSCH-FlowControlItem ::= SEQUENCE {
    dSCH-SchedulingPriority          SchedulingPriorityIndicator,
    MAC-c-sh-SDU-Lengths           MAC-c-sh-SDU-LengthList,
    iE-Extensions                  ProtocolExtensionContainer { {DSCH-FlowControlItem-ExtIEs} } OPTIONAL,
    ...
}

DSCH-FlowControlItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNoOfDSCHs)) OF DSCH-TDD-InformationItem

DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID           CCTrCH-ID, -- DL CCTrCH in which the DSCH is mapped
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    BLER                   BLER,
    iE-Extensions         ProtocolExtensionContainer { {DSCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    ...
}

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

.
.
.
Partly omitted
.
.
.

-- M

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

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

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

```

```

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

MaxNrDLPhysicalchannels ::= INTEGER (1..224)

MaxNrTimeslots ::= INTEGER (1..14)

MaxNrULPhysicalchannels ::= INTEGER (1..2)

MaxTFCIvalue ::= INTEGER (1..1023)

MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

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

MeasurementID ::= INTEGER (0..1048575)

MinimumSpreadingFactor ::= INTEGER (1..16)

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

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

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

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

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

MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    sir SIR-Value-IncrDecrThres,
    sir-error SIR-Error-Value-IncrDecrThres,
    transmitted-code-power Transmitted-Code-Power-Value-IncrDecrThres,
    rscp RSCP-Value-IncrDecrThres,
    round-trip-time Round-Trip-Time-IncrDecrThres,
    ...
}

```

```

MeasurementThreshold ::= CHOICE {
    sir
    sir-error
    transmitted-code-power
    rscp
    rx-timing-deviation
    round-trip-time
    ...
}

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

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode MidambleAllocationMode,
    midambleShift MidambleShiftLong OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} } OPTIONAL,
    ...
}

MidambleAllocationMode ::= ENUMERATED {
    DefaultMidamble,
    CommonMidamble,
    UESpecificMidamble,
    ...
}

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

```

```

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

-- N

NCC ::= BIT STRING (SIZE (3))

Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-CellInformationItemIE }}

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

Neighbouring-UMTS-CellInformationItem ::= SEQUENCE {
    rNC-ID RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
    neighbouring-FDD-CellInformation Neighbouring-FDD-CellInformation OPTIONAL,
    neighbouring-TDD-CellInformation Neighbouring-TDD-CellInformation OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { id-neighbouring-LCR-TDD-CellInformation CRITICALITY ignore EXTENSION Neighbouring-LCR-TDD-CellInformation PRESENCE optional },
    ...
}

Neighbouring-FDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem

Neighbouring-FDD-CellInformationItem ::= SEQUENCE {
    c-ID C-ID,
    uARFCNforNu UARFCN,
    uARFCNforNd UARFCN,
    frameOffset FrameOffset OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
}

```

```

cellIndividualOffset      CellIndividualOffset      OPTIONAL,
txDiversityIndicator      TxDiversityIndicator,
sTTD-SupportIndicator     STTD-SupportIndicator     OPTIONAL,
closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
iE-Extensions            ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs} } OPTIONAL,
...
}

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

Neighbouring-GSM-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfGSMNeighboursPerRNC,...)) OF Neighbouring-GSM-CellInformationItem

Neighbouring-GSM-CellInformationItem ::= SEQUENCE {
  CGI                      CGI,
  q-Offset-Serving-to-Neighbour Q-Offset-Serving-to-Neighbour,
  q-RxlevMin              Q-RxlevMin,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  bSIC                    BSIC,
  bCCH-ARFCN              BCCH-ARFCN,
  gSM-Output-Power        GSM-Output-Power OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { { Neighbouring-GSM-CellInformationItem-ExtIEs} } OPTIONAL,
  ...
}

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

Neighbouring-TDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem

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

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

```

```

}
Neighbouring-LCR-TDD-CellInformation ::= SEQUENCE (SIZE (1.. maxNrofLCRTDDNeighboursPerRNC,..)) OF Neighbouring-LCR-TDD-CellInformationItem
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNt UARFCN,
  frameOffset FrameOffset OPTIONAL,
  cellParameterID CellParameterID,
  timeSlotLCR TimeSlotLCR,
  block-STTD-Indicator Block-STTD-Indicator,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  dPCHConstantValue DPCHConstantValue OPTIONAL,
  pCCPCH-Power PCCPCH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
  ...
}
Neighbouring-LCR TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

NrOfDLchannelisationcodes ::= INTEGER (1..8)

NrOfTransportBlocks ::= INTEGER (0..512)

.
.
.
Partly omitted
.
.
.

-- R

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

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

RB-Identity ::= INTEGER (0..31)

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

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
  v1,

```



```

    v2,
    v4,
    v8,
    v16,
    v32,
    v64
}

RepetitionNumber ::= INTEGER (1..256)

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

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

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

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

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

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)

Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [23]

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [24]

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

Received-total-wide-band-power          ::= INTEGER (0..621)
-- According to mapping in [23]

RxTimingDeviationForTA                  ::= INTEGER (0..127)
-- As specified in [5], ch. 6.2.7.6

```

-- For 1.28Mcps TDD this IE must be set to 0.

Rx-Timing-Deviation-Value ::= INTEGER (0..2047)  
--According to mapping in [24][3.84Mcps TDD only]

-- S

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

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

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

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

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

Secondary-CCPCH-Info ::= 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,  
 iB-schedulingInformation IB-SchedulingInformation,  
 iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-Info-ExtIEs} } OPTIONAL,  
 ...  
}

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

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

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

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

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

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

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

SN ::= TimeSlot

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

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

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

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

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

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

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

STTD-Indicator ::= ENUMERATED {
```

```

    active,
    inactive
}

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

SyncCase ::= INTEGER (1..2,...)

-- 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-ChannelisationCodeLCR ::= CHOICE {
    sfl          ENUMERATED { QPSK, 8PSK, ... },
    sfx          TDD-ChannelisationCode,
    ...
}

```

TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifyItem

```
TDD-DCHs-to-ModifyItem ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode   OPTIONAL,
    toAWS              ToAWS        OPTIONAL,
    toAWE              ToAWE        OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    dCH-SpecificInformationList TDD-DCHs-to-ModifySpecificInformationList,
    iE-Extensions      ProtocolExtensionContainer { {TDD-DCHs-to-ModifyItem-ExtIEs} } OPTIONAL,
    ...
}
```

```
TDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

TDD-DCHs-to-ModifySpecificInformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF TDD-DCHs-to-ModifySpecificItem

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

```
TDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

TDD-DL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem

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

```
TDD-DL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCRs)) OF TDD-DL-Code-LCR-InformationItem

```
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID            DPCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
```

```

    iE-Extensions          ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs } } OPTIONAL,
    ...
}

TDD-DL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

TDD-UL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem

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

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

TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCRs)) OF TDD-UL-Code-LCR-InformationItem

TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR,
    iE-Extensions    ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } } OPTIONAL,
    ...
}

TDD-UL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

```

```

    v16,
    v32,
    ...
}

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

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

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

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

TGPSID ::= INTEGER (1.. maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

TimeSlotLCR ::= INTEGER (0..6)

TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
}

ToAWE ::= INTEGER (0..2559)

ToAWS ::= INTEGER (0..1279)

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
SEQUENCE {
    tGPSID          TGPSID,
    tGSN            TGSN,
    tGL1            GapLength,
    tGL2            GapLength OPTIONAL,
    tGD             TGD,
    tGPL1           GapDuration,
    tGPL2           GapDuration OPTIONAL,
    uL-DL-mode      UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method   Uplink-Compressed-Mode-Method   OPTIONAL,

```

```

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

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

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

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

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

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

TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    ...
}

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

```



```

TransportBearerID      ::= INTEGER (0..4095)

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

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

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE {
        betaC          BetaCD,
        betaD          BetaCD,
        refTFCNumber   RefTFCNumber OPTIONAL,
        iE-Extensions  ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
        ...
    },
    refTFCNumber        RefTFCNumber,
    ...
}

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

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

Split-in-TFCI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

```

```

}

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

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

TFCS-CTFC ::= CHOICE {
  ctfc2bit              INTEGER (0..3),
  ctfc4bit              INTEGER (0..15),
  ctfc6bit              INTEGER (0..63),
  ctfc8bit              INTEGER (0..255),
  ctfc12bit            INTEGER (0..4095),
  ctfc16bit            INTEGER (0..65535),
  ctfcmaxbit           INTEGER (0..maxCTFC)
}

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

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

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

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

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

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

```

```

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

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

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

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

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

TransportFormatSet-ModeDP ::= CHOICE {
    tdd                     TDD-TransportFormatSet-ModeDP,
    notApplicable           NULL,
    ...
}

TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
    transmissionTimeIntervalInformation      TransmissionTimeIntervalInformation      OPTIONAL,
    -- This IE is mandatory if the "Transmission Time Interval" of the "Semi-static Transport Format Information" is "dynamic". Otherwise it is
absent.
    iE-Extensions                       ProtocolExtensionContainer { {TDD-TransportFormatSet-ModeDP-ExtIEs} } OPTIONAL,
    ...
}

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

TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-Count)) OF
SEQUENCE {
    transmissionTimeInterval      TransmissionTimeIntervalDynamic,

```

```

        iE-Extensions          ProtocolExtensionContainer { {TransmissionTimeIntervalInformation-ExtIEs} } OPTIONAL,
        ...
    }

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

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

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

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

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

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

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

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

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

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

```

```

}
TSTD-Support-Indicator ::= ENUMERATED {
    tSTD-supported,
    tSTD-not-supported
}
TxDiversityIndicator ::= ENUMERATED {
    true,
    false
}
-- U
UARFCN ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}
UL-Timeslot-Information ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence TFCI-Presence,
    uL-Code-Information TDD-UL-Code-Information,
    iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-InformationItem-ExtIEs} } OPTIONAL,
    ...
}
UL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeslotLCR-InformationItem
UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR TimeSlotLCR,
    midambleShiftLCR MidambleShiftLCR,
    tFCI-Presence TFCI-Presence,
    tDD-uL-Code-LCR-InformationList TDD-UL-Code-LCR-Information,
    iE-Extensions ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs} } OPTIONAL,
    ...
}
UL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-TimeSlot-ISCP-InfoItem

UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    uL-TimeslotISCP         UL-TimeslotISCP,
    iE-Extensions           ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    ...
}

UL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeSlot-ISCP-LCR-InfoItem

UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR             TimeSlotLCR,
    iSCP                    UL-TimeslotISCP-Value,
    iE-Extensions           ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    ...
}

UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

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

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

UL-FP-Mode ::= ENUMERATED {

```

```

    normal,
    silent,
    ...
}

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

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

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

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

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

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

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

URA-Information ::= SEQUENCE {
    uRA-ID                    URA-ID,
    multipleURAsIndicator     MultipleURAsIndicator,
    rNCsWithCellsInTheAccessedURA-List RNCsWithCellsInTheAccessedURA-List OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {URA-Information-ExtIEs} } OPTIONAL,
    ...
}

URA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RNCsWithCellsInTheAccessedURA-List ::= SEQUENCE (SIZE (1..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item

RNCsWithCellsInTheAccessedURA-Item ::= SEQUENCE {
    rNC-ID                    RNC-ID,
    iE-Extensions            ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-Item-ExtIEs} } OPTIONAL,
    ...
}

RNCsWithCellsInTheAccessedURA-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

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

USCH-Information ::= SEQUENCE (SIZE (1..maxNoOfUSCHs)) OF USCH-InformationItem

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

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

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

END

.
.
.
Partly omitted
.
.
.

```

### 9.3.6 Constant Definitions

```

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

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

```



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

```
BEGIN
```

```
IMPORTS
```

```
    ProcedureCode,
    ProtocolIE-ID
```

```
FROM RNSAP-CommonDataTypes;
```

```
-- *****
```

```
--
```

```
-- Elementary Procedures
```

```
--
```

```
-- *****
```

```
id-commonTransportChannelResourcesInitialisation      ProcedureCode ::= 0
id-commonTransportChannelResourcesRelease            ProcedureCode ::= 1
id-compressedModeCommand                             ProcedureCode ::= 2
id-downlinkPowerControl                              ProcedureCode ::= 3
id-downlinkPowerTimeslotControl                      ProcedureCode ::= 4
id-downlinkSignallingTransfer                        ProcedureCode ::= 5
id-errorIndication                                   ProcedureCode ::= 6
id-measurementFailure                                ProcedureCode ::= 7
id-measurementInitiation                             ProcedureCode ::= 8
id-measurementReporting                              ProcedureCode ::= 9
id-measurementTermination                            ProcedureCode ::= 10
id-paging                                             ProcedureCode ::= 11
id-physicalChannelReconfiguration                    ProcedureCode ::= 12
id-privateMessage                                    ProcedureCode ::= 13
id-radioLinkAddition                                 ProcedureCode ::= 14
id-radioLinkDeletion                                 ProcedureCode ::= 15
id-radioLinkFailure                                  ProcedureCode ::= 16
id-radioLinkPreemption                               ProcedureCode ::= 17
id-radioLinkRestoration                              ProcedureCode ::= 18
id-radioLinkSetup                                    ProcedureCode ::= 19
id-relocationCommit                                  ProcedureCode ::= 20
id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 21
id-synchronisedRadioLinkReconfigurationCommit        ProcedureCode ::= 22
id-synchronisedRadioLinkReconfigurationPreparation   ProcedureCode ::= 23
id-unSynchronisedRadioLinkReconfiguration            ProcedureCode ::= 24
id-uplinkSignallingTransfer                          ProcedureCode ::= 25
```

```
-- *****
```

```
--
```

```
-- Lists
```

```
--
```

```
-- *****
```

```
maxCodeNumComp-1          INTEGER ::= 255
maxRateMatching           INTEGER ::= 256
maxNoCodeGroups           INTEGER ::= 256
maxNoOfDSCHs              INTEGER ::= 10
```

maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLs-1	INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxFACHCountPlus1	INTEGER ::= 10
maxIBSEG	INTEGER ::= 16
maxTFCI1Combs	INTEGER ::= 512
maxTFCI2Combs	INTEGER ::= 1024
maxTFCI2Combs-1	INTEGER ::= 1023
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15
maxNrOfTSLCR	INTEGER ::= 6

```
-- *****
--
-- IEs
--
-- *****
```

id-AllowedQueuingTime	ProtocolIE-ID ::= 4
id-BindingID	ProtocolIE-ID ::= 5
id-C-ID	ProtocolIE-ID ::= 6
id-C-RNTI	ProtocolIE-ID ::= 7
id-CFN	ProtocolIE-ID ::= 8
id-CN-CS-DomainIdentifier	ProtocolIE-ID ::= 9

id-CN-PS-DomainIdentifier	ProtocolIE-ID ::= 10
id-Cause	ProtocolIE-ID ::= 11
id-CriticalityDiagnostics	ProtocolIE-ID ::= 20
id-D-RNTI	ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication	ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD	ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 33
id-DCH-FDD-Information	ProtocolIE-ID ::= 34
id-DCH-TDD-Information	ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 40
id-DCH-InformationResponse	ProtocolIE-ID ::= 43
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListItem-RL-ReconfReadyTDD	ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListItem-PhyChReconfRqstTDD	ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 49
id-DL-CCTrCH-InformationListItem-RL-SetupRspTDD	ProtocolIE-ID ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 53
id-FDD-DL-CodeInformation	ProtocolIE-ID ::= 54
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	ProtocolIE-ID ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::= 64
id-DLReferencePower	ProtocolIE-ID ::= 67
id-DLReferencePowerList-DL-PC-Rqst	ProtocolIE-ID ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	ProtocolIE-ID ::= 69
id-DRXCycleLengthCoefficient	ProtocolIE-ID ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	ProtocolIE-ID ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	ProtocolIE-ID ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	ProtocolIE-ID ::= 73
id-DedicatedMeasurementType	ProtocolIE-ID ::= 74
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD	ProtocolIE-ID ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD	ProtocolIE-ID ::= 83
id-IMSI	ProtocolIE-ID ::= 84
id-L3-Information	ProtocolIE-ID ::= 85
id-AdjustmentPeriod	ProtocolIE-ID ::= 90
id-MaxAdjustmentStep	ProtocolIE-ID ::= 91
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 92
id-MeasurementID	ProtocolIE-ID ::= 93
id-Neighbouring-GSM-CellInformation	ProtocolIE-ID ::= 13
id-Neighbouring-UMTS-CellInformationItem	ProtocolIE-ID ::= 95
id-PagingArea-PagingRqst	ProtocolIE-ID ::= 102
id-FACH-FlowControlInformation	ProtocolIE-ID ::= 103

id-PowerAdjustmentType	ProtocolIE-ID ::= 107
id-ProcedureScope-DL-PC-Rqst	ProtocolIE-ID ::= 108
id-RANAP-RelocationInformation	ProtocolIE-ID ::= 109
id-RL-Information-PhyChReconfRqstFDD	ProtocolIE-ID ::= 110
id-RL-Information-PhyChReconfRqstTDD	ProtocolIE-ID ::= 111
id-RL-Information-RL-AdditionRqstFDD	ProtocolIE-ID ::= 112
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 113
id-RL-Information-RL-DeletionRqst	ProtocolIE-ID ::= 114
id-RL-Information-RL-FailureInd	ProtocolIE-ID ::= 115
id-RL-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 116
id-RL-Information-RL-RestoreInd	ProtocolIE-ID ::= 117
id-RL-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 118
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 119
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID ::= 120
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 121
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 122
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID ::= 2
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 123
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 124
id-RL-InformationList-RL-DeletionRqst	ProtocolIE-ID ::= 125
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 1
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID ::= 128
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD	ProtocolIE-ID ::= 131
id-RL-InformationResponseItem-RL-ReconfRspFDD	ProtocolIE-ID ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD	ProtocolIE-ID ::= 135
id-RL-InformationResponseList-RL-ReconfRspFDD	ProtocolIE-ID ::= 136
id-RL-InformationResponse-RL-ReconfRspTDD	ProtocolIE-ID ::= 28
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 137
id-RL-ReconfigurationFailure-RL-ReconfFail	ProtocolIE-ID ::= 141
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 143
id-RL-Set-InformationItem-DM-Rqst	ProtocolIE-ID ::= 144
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 145
id-RL-Set-Information-RL-FailureInd	ProtocolIE-ID ::= 146
id-RL-Set-Information-RL-RestoreInd	ProtocolIE-ID ::= 147
id-ReportCharacteristics	ProtocolIE-ID ::= 152
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 153
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID ::= 154
id-S-RNTI	ProtocolIE-ID ::= 155
id-SAI	ProtocolIE-ID ::= 156
id-SRNC-ID	ProtocolIE-ID ::= 157
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	ProtocolIE-ID ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	ProtocolIE-ID ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	ProtocolIE-ID ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	ProtocolIE-ID ::= 162
id-TransportBearerID	ProtocolIE-ID ::= 163
id-TransportBearerRequestIndicator	ProtocolIE-ID ::= 164
id-TransportLayerAddress	ProtocolIE-ID ::= 165

id-UC-ID	ProtocolIE-ID ::= 166
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD	ProtocolIE-ID ::= 167
id-UL-CCTrCH-InformationAddItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 168
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 169
id-UL-CCTrCH-InformationAddList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	ProtocolIE-ID ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	ProtocolIE-ID ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::= 182
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 183
id-UL-SIRTarget	ProtocolIE-ID ::= 184
id-URA-Information	ProtocolIE-ID ::= 185
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	ProtocolIE-ID ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	ProtocolIE-ID ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	ProtocolIE-ID ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	ProtocolIE-ID ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	ProtocolIE-ID ::= 192
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 193
id-AdjustmentRatio	ProtocolIE-ID ::= 194
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 197
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 198
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 199
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 200
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 201
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 207
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 209
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 210
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 214
id-DSCHs-to-Add-TDD	ProtocolIE-ID ::= 215
id-DSCHs-to-Add-FDD	ProtocolIE-ID ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD	ProtocolIE-ID ::= 218
id-DSCH-FDD-Information	ProtocolIE-ID ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::= 221
id-DSCH-TDD-Information	ProtocolIE-ID ::= 222
id-DSCH-FDD-InformationResponse	ProtocolIE-ID ::= 223
id-DSCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 226
id-DSCH-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 227
id-DSCH-Modify-RL-ReconfPrepFDD	ProtocolIE-ID ::= 228

id-DSCHsToBeAddedOrModified-FDD	ProtocolIE-ID ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	ProtocolIE-ID ::= 230
id-GA-AccessPointPosition	ProtocolIE-ID ::= 231
id-GA-Cell	ProtocolIE-ID ::= 232
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 255
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	ProtocolIE-ID ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	ProtocolIE-ID ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 258
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 260
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 261
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 262
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 263
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 264
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 265
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD	ProtocolIE-ID ::= 266
id-USCHs-to-Add	ProtocolIE-ID ::= 267
id-USCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 268
id-USCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 269
id-USCH-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::= 270
id-USCH-Information	ProtocolIE-ID ::= 271
id-USCH-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 272
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	ProtocolIE-ID ::= 273
id-DL-Physical-Channel-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 274
id-UL-Physical-Channel-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 275
id-ClosedLoopModel-SupportIndicator	ProtocolIE-ID ::= 276
id-ClosedLoopMode2-SupportIndicator	ProtocolIE-ID ::= 277
id-STTD-SupportIndicator	ProtocolIE-ID ::= 279
id-CFNReportingIndicator	ProtocolIE-ID ::= 14
id-CNOriginatedPage-PagingRqst	ProtocolIE-ID ::= 23
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 24
id-PropagationDelay	ProtocolIE-ID ::= 25
id-RxTimingDeviationForTA	ProtocolIE-ID ::= 36
id-timeSlot-ISCPList-DL-PC-Rqst-TDD	ProtocolIE-ID ::= 37
id-neighbouring-LCR-TDD-CellInformation	protocolIE-ID ::=
id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID ::=
id-RL-LCR-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::=
id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::=
id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD	ProtocolIE-ID ::=
id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::=
id-USCH-LCR-InformationListIEs-RL-SetupRspTDD	ProtocolIE-ID ::=
id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::=
id-RL-LCR-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::=

<u>id-UL-TimeslotLCR-InformationList-RL-ReconfReadyTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DL-TimeslotLCR-InformationList-RL-ReconfReadyTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-UL-TimeslotLCR-InformationList-PhyChReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DL-TimeslotLCR-InformationList-PhyChReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-TSTD-Support-Indicator-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>

END

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Partly omitted

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## CHANGE REQUEST

⌘ **25.425 CR 023** ⌘ rev **4** ⌘ Current version: **3.3.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.425 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>	

**Reason for change:** ⌘ The current TS is only support 3.84Mcps TDD. It would be support 1.28Mcps TDD in Rel 4.  
 In 1.28Mcps TDD, the uplink synchronisation feature replace or complement the timing advance function which is performed by higher layer interaction in 3.84Mcps. For supporting 1.28Mcps TDD, there would be changed.

Rev 1:  
In the RACH frame because only the RX Timing Deviation is conditional in the octet, not the padding field.

Rev 3: In the RACH frame, Received SYNC UL Timing Deviation should be added for SRNC to calculate the propagation delay.

**Summary of change:** ⌘ The parameter "Rx Timing Deviation" is transmitted only in 3.84Mcps TDD.

1. In the figure 9 the parameter Rx Timing Deviation tagged with "conditional 3.84Mcps TDD".
2. Indicated that Rx Timing Deviation is only used for 3.84Mcps TDD at the description paragraph.

Rev1:  
Correct the figure 9 according above change reason for rev1.

Rev3: Received SYNC UL Timing Deviation is added in Figure 9 and corresponding description is added in 6.2.5.x

Rev4: Figure 9 is updated.

**Consequences if** ⌘ The current TS will not supporting REL-4 to LCR TDD option.



**not approved:**

Backward compatibility: The CR is backward compatible to Rel99 because the U-plane mode is signalled in the C-plane.

**Clauses affected:** ⌘ 6.2.1, 6.2.5

**Other specs affected:** ⌘  Other core specifications ⌘   
 Test specifications  
 O&M Specifications

**Other comments:** ⌘ At the RAN4#15, the value range and Granularity for the value of Received SYNC UL Timing Deviation was approved. The approved Tdoc is R4-010183.  
- Range: 0...+256  
- Granularity: 1/8 chips

### How to create CRs using this form:

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

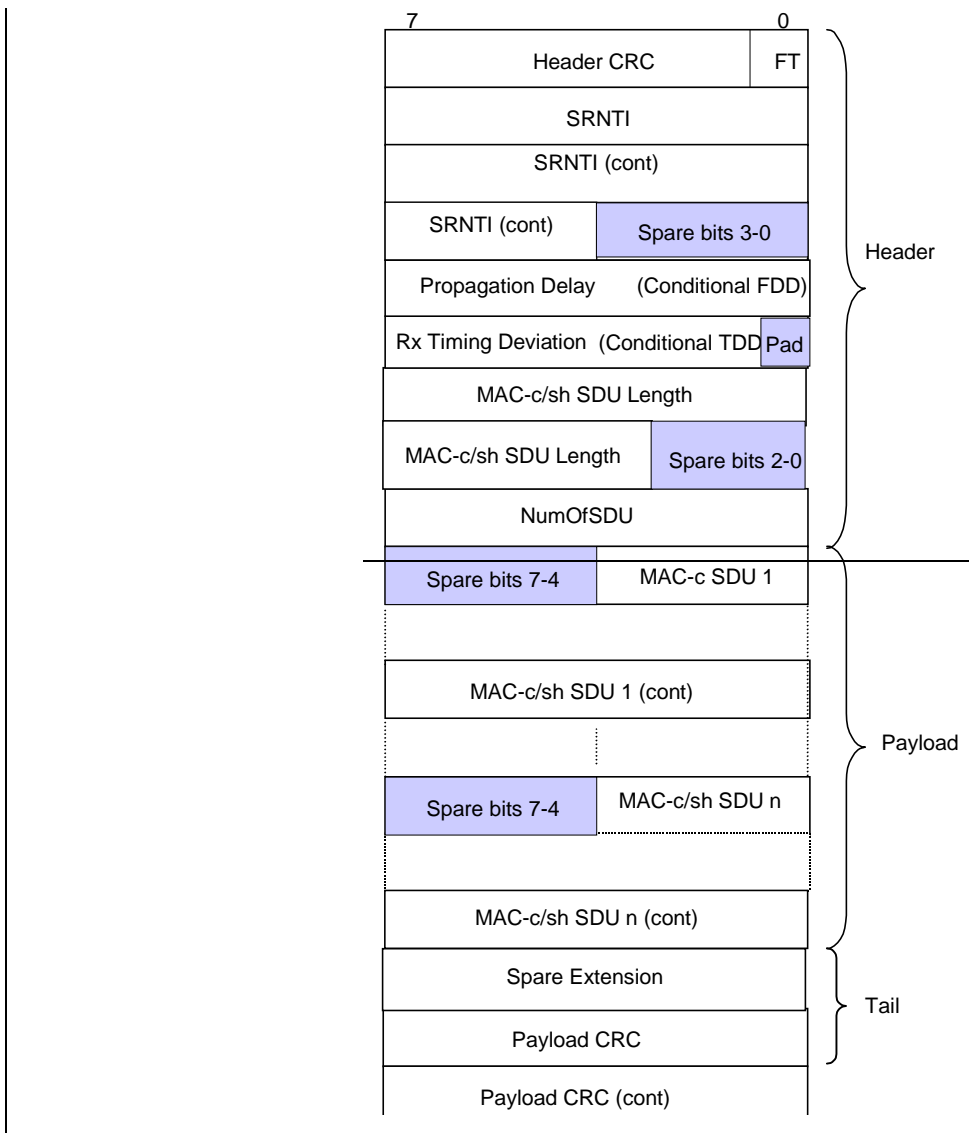
- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes")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

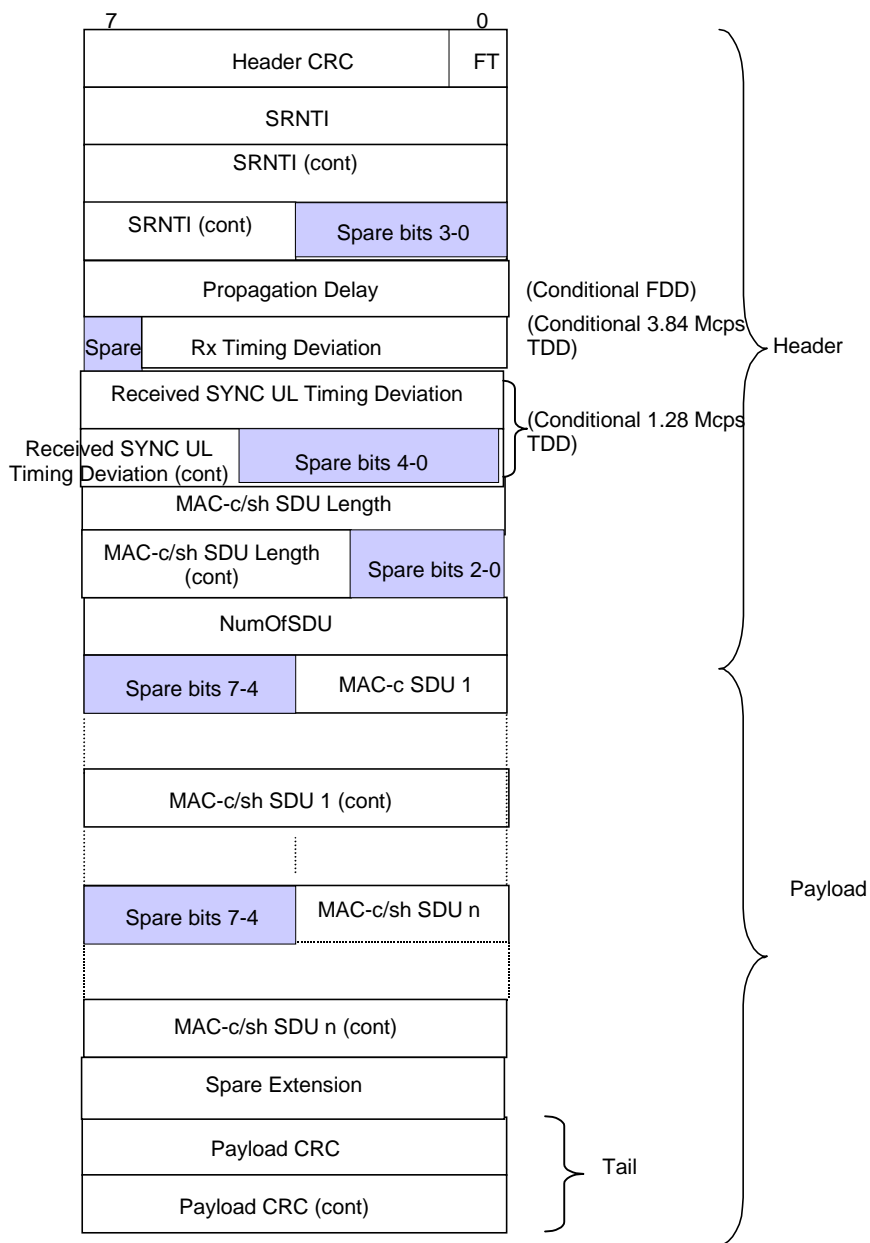
### 6.2.1 RACH/CPCH[FDD] Channels

RACH/CPCH[FDD] Iur data stream corresponds to the data stream of one specific UE. The used transport bearer for the transport of FACH/RACH or FACH/CPCH[FDD] is bi-directional.

The RACH/CPCH[FDD]/FACH FP does not facilitate multiplexing of data streams from different UEs onto the same data frame, but does allow multiple UEs to share the same transport bearer.

The RACH Data frame structure is defined as common for FDD and TDD with conditional fields, and CPCH[FDD] Data frame structure is defined as common for FDD only.





**Figure 9: RACH/CPCH[FDD] Data Frame structure**

Propagation delay is a conditional Information Element which is only present when the Cell supporting the RACH/CPCH[FDD] Transport Channel is a FDD Cell.

Rx Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 3.84Mcps TDD Cell.

Received SYNC UL Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 1.28Mcps TDD Cell.

Spare bits shall be set to 0 and ignored by the receiver.

**6.2.5.11**     [3.84Mcps TDD - Rx Timing Deviation]

**Description:** Measured Rx Timing Deviation as a basis for timing advance.

**Value range:** {-256, ..., +256} chips

$\{N*4 - 256\} \text{ chips} \leq \text{RxTiming Deviation} < \{(N+1)*4 - 256\} \text{ chips}$

With  $N = 0, 1, \dots, 127$

**Granularity:** 4 chips.

**Field length:** 7 bits.

**6.2.5.x**     [1.28Mcps TDD – Received SYNC UL Timing Deviation]

**Description:** Measured Received SYNC UL Timing Deviation as a basis for propagation delay.

**Value range:** {0, ..., +256} chips

**Granularity:** 1/8 chips.

**Field length:** 11 bits.

## CHANGE REQUEST

⌘ **25.427 CR 42** ⌘ rev **2** ⌘ Current version: **3.5.0** ⌘

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

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

<b>Title:</b>	⌘ The impact on TS 25.427 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
Use <u>one</u> of the following categories: <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)	

<b>Reason for change:</b>	⌘ The current TS is only support 3.84Mcps TDD. It would be support 1.28Mcps TDD in Rel 4. In 1.28Mcps TDD, the uplink synchronisation feature replace or complement the timing advance function which is performed by higher layer interaction in 3.84Mcps. For supporting 1.28Mcps TDD, there would be changed.  <u>Rev 1:</u> The chapter 5.9 is also only used for 3.84Mcps TDD.
<b>Summary of change:</b>	⌘ The "Rx Timing Deviation" procedure only used in 3.84Mcps TDD.  <u>Rev 1:</u> Tag chapter 5.9 as "Timing Advace [3.84Mcps TDD]".
<b>Consequences if not approved:</b>	⌘ The current TS will not supporting REL-4 to LCR TDD option.  Backward compatibility: These descriptive additions are backward compatible with the previous version of the TS.

<b>Clauses affected:</b>	⌘ 4.1, 5.6		
<b>Other specs affected:</b>	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
<b>Other comments:</b>	⌘		

**How to create CRs using this form:**

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

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

## 4.1 DCH FP services

DCH frame protocol provides the following services:

- Transport of TBS across Iub and Iur interface.
- Transport of outer loop power control information between the SRNC and the Node B.
- Support of transport channel synchronization mechanism.
- Support of Node Synchronization mechanism.
- Transfer of DSCH TFI from SRNC to Node B.
- Transfer of Rx timing deviation (3.84Mcps TDD) from the Node B to the SRNC.
- Transfer of radio interface parameters from the SRNC to the Node B.

## 5.6 Rx timing deviation measurement [3.84Mcps TDD]

In case the *Timing Advance Applied* IE indicates "Yes" (see Ref. [4]) in a cell, the Node B shall, for all UEs using DCHs, monitor the receive timing of the uplink DPCH bursts arriving over the radio interface, and shall calculate the Rx Timing Deviation. If the calculated value, after rounding, is not zero, it shall be reported to the SRNC in a RX TIMING DEVIATION Control Frame belonging to that UE. For limitation of the frequency of this reporting, the Node B shall not send more than one RX TIMING DEVIATION Control Frame per UE within one radio frame.

If the *Timing Advance Applied* IE indicates "No" (see Ref. [4]) in a cell, monitoring of the receive timing of the uplink DPCH bursts is not necessary and no RX TIMING DEVIATION Control Frame shall be sent.

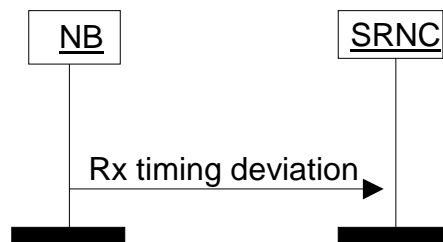


Figure 7: Rx timing deviation

## 5.9 Timing Advance [3.84Mcps TDD]

This procedure is used in order to signal to the node B the adjustment to be performed by the UE in the uplink timing.

The Node B shall use the CFN and timing adjustment values to adjust its layer 1 to allow for accurate impulse averaging.

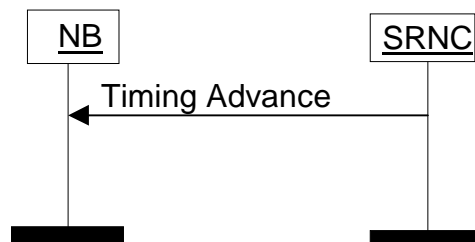
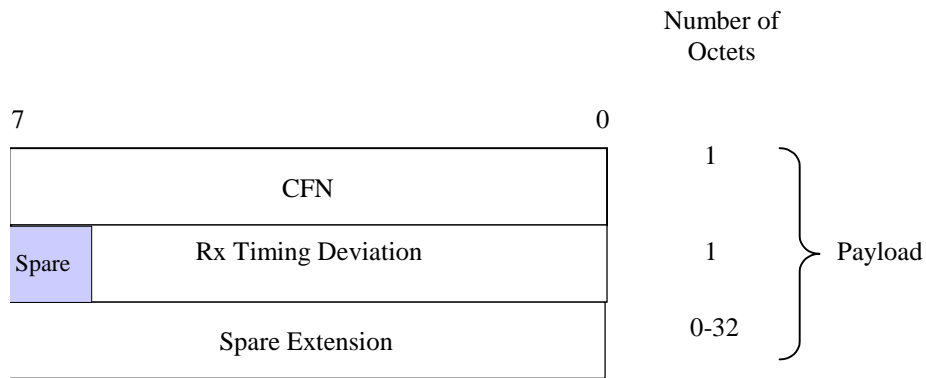


Figure 9A: Timing Advance Signalling

6.3.3.10 [3.84Mcps\_TDD - Timing Advance]

6.3.3.10.1 Payload structure

Figure below shows the structure of the payload when the control frame is used for timing advance.



**Figure 23: Structure of the Timing Advance control frame**

6.3.3.10.2 CFN

The CFN value in the control frame is the frame that the timing advance will occur and is coded as in subclause 6.2.4.3.

6.3.3.10.3 TA

**Description:** UE applied UL timing advance adjustment.

**Value range:** : 0-252 chips, and the resolution is 4 chips.

**Field length:** 6 bits.

6.3.3.10.4 Spare Extension

The Spare Extension is described in subclause 6.3.3.1.4.



CR-Form-v3

## CHANGE REQUEST

⌘ **25.430 CR 14** ⌘ rev **2** ⌘ Current version: **3.4.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.430 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
	<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification)		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

<b>Reason for change:</b>	⌘ The current TS is only support 3.84Mcps TDD. It would be support 1.28Mcps TDD in Rel 4. In the current TS, the common resource in Node B only include FDD mode and 3.84Mcps TDD option. So there is include 1.28Mcps TDD option also.
	<u>Rev 1:</u> <u>To unified with WG1, change the name of DwPTS and UpPTS.</u>
<b>Summary of change:</b>	⌘ Added the common resource such as FPACH, UpPTS and DwPTS used by 1.28Mcps TDD in the figure 3.
	<u>Rev 1:</u> <u>1. Replace UpPTS by UpPCH, and DwPTS by DwPCH.</u> <u>2. Tag the number of FPACH in figure 3 is only used for 1.28Mcps TDD</u>
	Rev.2: Correction in figure 3, with respect to the number of FPACH, and the UpPCH Id which is removed because the UpPCH is not configured explicitly.
<b>Consequences if not approved:</b>	⌘ The current TS will not be supporting REL-4 with respect to LCR TDD option.  Backward compatibility: These descriptive additions are backward compatible with the previous version of the TS.

<b>Clauses affected:</b>	⌘ 6.2.4.1		
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications	⌘ <input type="checkbox"/>	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		

**Other comments:** ☹

**How to create CRs using this form:**

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

## 6.2.4 Radio Network Logical resources

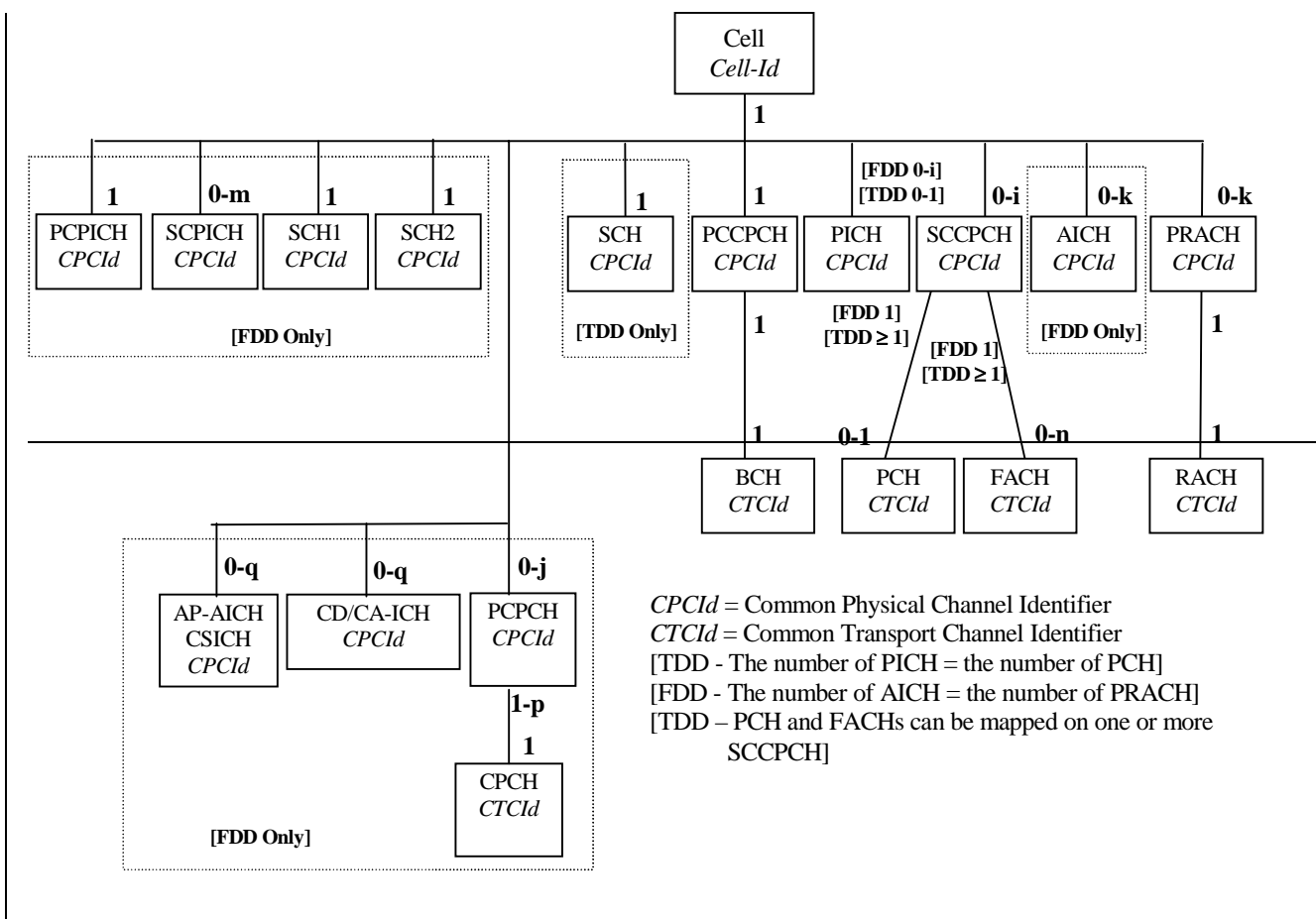
### 6.2.4.1 Common Resources

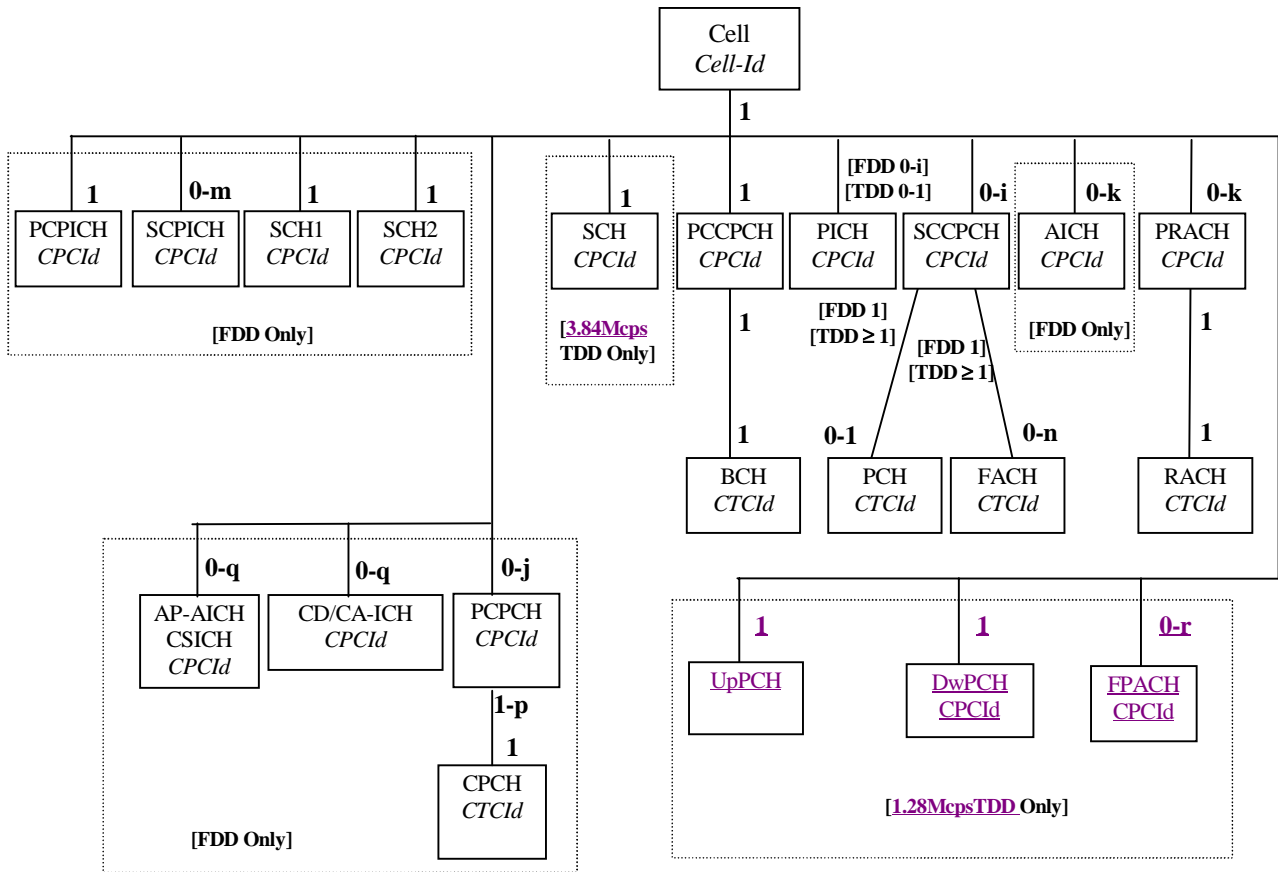
The CRNC manages logical radio network resources in Node B and needs to use both common and dedicated resources in a Node B to run a radio network. Therefore, it is the CRNC that orders the Node B to configure, reconfigure and delete these resources. However, if the equipment in Node B cannot fully support the configuration that the CRNC requests, or the equipment breaks down, then Node B can indicate the availability of the common resources (i.e. both downgrade and upgrade).

The common resources are the Cell, the common physical channels and the common transport channels.

In Node B these common resources have an operational state, that indicates whether they are operational or not, i.e. whether they can carry traffic or not.

Figure 3 shows the common resources that a CRNC is managing in a Node B to be able to run a radio network.





CPCId = Common Physical Channel Identifier  
 CTCId = Common Transport Channel Identifier  
 [TDD - The number of PICH = the number of PCH]  
 [FDD - The number of AICH = the number of PRACH]  
 [TDD - PCH and FACHs can be mapped on one or more SCCPCH]

Figure 3: Common resources in a Node B that are managed by the CRNC

## CHANGE REQUEST

⌘ **25.433 CR 358** ⌘ **2** ⌘ Current version: **3.4.1** ⌘

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

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

**Title:** ⌘ The impacts on TS 25.433 for supporting low chip rate TDD in the NBAP Common Procedures

**Source:** ⌘ R-WG3

**Work item code:** ⌘ LCRTDD-lublur

**Date:** ⌘ Feb 2001

**Category:** ⌘ **B**

**Release:** ⌘ REL-4

Use one of the following categories:

- F** (essential correction)
- A** (corresponds to a correction in an earlier release)
- B** (Addition of feature),
- C** (Functional modification of feature)
- D** (Editorial modification)

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

- 2** (GSM Phase 2)
- R96** (Release 1996)
- R97** (Release 1997)
- R98** (Release 1998)
- R99** (Release 1999)
- REL-4** (Release 4)
- REL-5** (Release 5)

**Reason for change:** ⌘ The current TS only supports the 3.84Mcps option of TDD. It shall also support 1.28Mcps TDD in REL-4. In particular, the physical channel related Information Elements in the NBAP messages related to TDD need to be complemented to include the 1.28Mcps option.

**Summary of change:** ⌘ Rev0:  
The parameters which are needed for 1.28Mcps TDD are added in the Tabular Format of the messages of the NBAP Common Procedures, and in the Information Elements chapter, and in ASN.1, and the procedure text is suitably modified.

Rev1:  
Several corrections at R3#19 before presentation.

Rev.2: Additional corrections resulting from presentation at R3#19 (see yellow background):

- Optionality of repeatable IEs is indicated with "range" starting from 0, not with "presence O" in the Tabular.
- Criticality assigned to new IEs in messages: In 9.1.18 to Time Slot LCR; in 9.1.27.2 to DwPCH Information; in 9.1.36.2 to DL Timeslot ISCP Information LCR.
- Ch. 9.2.1.54: IE definition text for *Sync Case* IE improved.
- "Max FPACH power IE" in the procedure text used.
- Typo in 9.2.3.x7 corrected.
- Ch. 8.2.2.2: FPACH procedure text: uses "shall" and "if included".

Backward compatibility:  
This CR is backward compatible with the previous version of NBAP. See TR 25.937 for details.

**Consequences if not approved:** ⌘ If this CR is not approved, 1.28Mcps TDD will not be supported by NBAP.

**Clauses affected:** ⌘ 4.3, 8.2.1.1, 8.2.1.2, 8.2.2.2, 8.2.4.2, 8.2.5.2, 8.2.12.2, 8.2.13.2, 8.2.17.2, 9.1.3.2, 9.1.6.2, 9.1.17, 9.1.18, 9.1.24.2, 9.1.27.2, 9.1.32, 9.1.36.2, 9.1.37.2, 9.1.39.2, 9.2.1.24, 9.2.1.44, 9.2.3.22A, 9.3.3, 9.3.4, 9.3.6  
new: 9.2.1.x1, 9.2.1.x2, 9.2.1.x3, 9.2.1.x4, 9.2.1.x5, 9.2.1.x6, 9.2.1.x7, 9.2.1.x8, 9.2.1.x9, 9.2.1.x10, 9.2.1.x11

**Other specs affected:** ⌘  Other core specifications ⌘   
 Test specifications  
 O&M Specifications

**Other comments:** ⌘ This CR supersedes CR343r1 (R3-010250, not treated) from R3#18.

**How to create CRs using this form:**

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

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 4.3 Specification Notations

For the purposes of the present document, the following notations apply:

- [FDD] This tagging of a word indicates that the word preceding the tag "[FDD]" applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "[FDD]" and the section following the heading applies only to FDD.
- [TDD] This tagging of a word indicates that the word preceding the tag "[TDD]" applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[TDD]" and the section following the heading applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD.
- [3.84Mcps TDD] This tagging of a word indicates that the word preceding the tag "[3.84Mcps TDD]" applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[3.84Mcps TDD]" and the section following the heading applies only to 3.84Mcps TDD.
- [1.28Mcps TDD] This tagging of a word indicates that the word preceding the tag "[1.28Mcps TDD]" applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "[1.28Mcps TDD]" and the section following the heading applies only to 1.28Mcps TDD.
- [FDD - ...] This tagging indicates that the enclosed text following the "[FDD - " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.
- [TDD - ...] This tagging indicates that the enclosed text following the "[TDD - " applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs.
- [3.84Mcps TDD - ...] This tagging indicates that the enclosed text following the "[3.84Mcps TDD - " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs.
- [1.28Mcps TDD - ...] This tagging indicates that the enclosed text following the "[1.28Mcps TDD - " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs.
- Procedure When referring to an elementary procedure in the specification the Procedure Name is written with the first letters in each word in upper case characters followed by the word "procedure", e.g. Radio Link Setup procedure.
- Message When referring to a message in the specification the MESSAGE NAME is written with all letters in upper case characters followed by the word "message", e.g. RADIO LINK SETUP REQUEST message.
- IE When referring to an information element (IE) in the specification the *Information Element Name* is written with the first letters in each word in upper case characters and all letters in Italic font followed by the abbreviation "IE", e.g. *Transport Format Set* IE.
- Value of an IE When referring to the value of an information element (IE) in the specification the "Value" is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract Syntax Error (Reject)" or "SSDT Active in the UE".

/\* partly omitted \*/

## 8 NBAP Procedures

/\* partly omitted \*/

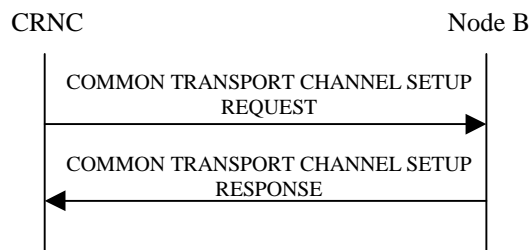
### 8.2 NBAP Common Procedures

#### 8.2.1 Common Transport Channel Setup

##### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, PCPCH[FDD], AICH [FDD], AP\_AICH[FDD], CD/CA-ICH[FDD], FACH, PCH, RACH, FPACH[1.28Mcps TDD] and CPCH[FDD].

##### 8.2.1.2 Successful Operation



**Figure 1: Common Transport Channel Setup procedure, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B.

One message can configure only one of the following combinations:

- [FDD-one Secondary CCPCH, and FACHes, PCH and PICH related to that Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or
- one [1.28Mcps TDD – or more] PRACH, and one RACH and one AICH[(FDD)] and one FPACH[1.28Mcps TDD] related to that PRACH at the time.
- [FDD-PCPCHes, one CPCH, one AP\_AICH and one CD/CA-ICH related to that group of PCPCHes at the time.]

##### Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Secondary CCPCH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The handling of the optional *STTD* IE is FFS.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or more Secondary CCPCHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[TDD- FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]



If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains one or several FACHs, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PCH and a PICH, the Node B shall configure and activate them according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message. [FDD- The handling of the optional *STTD* IE for PICH is FFS.]

**PRACH:**

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a PRACH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

**[1.28Mcps TDD – FPACH]:**

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a FPACH, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

**[FDD-PCPCHes]:**

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains PCPCHes, the Node B shall configure and activate it according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Signatures* IE, the Node B may use only the given CD signatures on CD/CA-ICH.

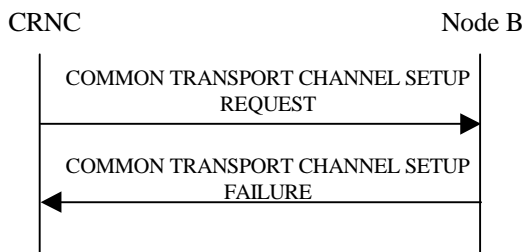
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes Channel Request Parameters IE group, the Node B shall use the parameters to distinguish the PCPCHs.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in Channel Request Parameters IE group, the Node B shall use AP sub channel number to distinguish the PCPCHs.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in SF Request Parameters IE group, the Node B shall use AP sub channel number to distinguish the requested Spreading Factors.

After a successful procedure, the defined common transport channels and the common physical channels shall adopt the state Enabled [6] in Node B and the common transport channels exist on the Uu interface. The Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the *Common Transport Channel ID* IE, the *Binding ID* IE and the *Transport Layer address* IE for the configured common transport channels.

**8.2.1.3 Unsuccessful Operation**



**Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation**

If the state already is Enabled or Disabled [6] for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message is received, the Node B shall reject the configuration of all channels with the *Cause* IE set to "Message not compatible with receiver state".

If the Node B is not able to support all part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Cell not available
- Unknown C-ID
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Protocol Cause**

- Semantic error
- Message not compatible with receiver state

#### **Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

#### **8.2.1.4 Abnormal Conditions**

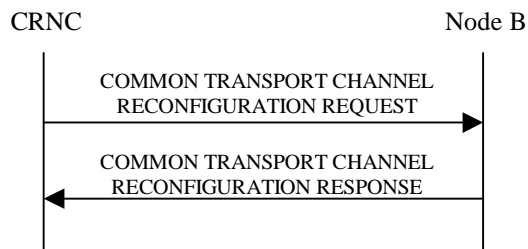
-

## 8.2.2 Common Transport Channel Reconfiguration

### 8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

### 8.2.2.2 Successful Operation



**Figure 3: Common Transport Channel Reconfiguration, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B.

One message can configure only one of the following combinations:

- [FDD- FACHes, one PCH and/or one PICH related to one Secondary CCPCH], or
- [TDD- Secondary CCPCHes and FACHes, PCH with the corresponding PICH related to that group of Secondary CCPCHes], or
- one RACH and/or one AICH[~~(FDD)~~] and/or one FPACH[1.28Mcps TDD] related to one PRACH, or
- [FDD- one CPCH and/or one AP-AICH and/or one CD/CA-ICH related to one CPCH]

at the time.

**[3.84Mcps TDD S-CCPCH]:** If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *S-CCPCH Power IE*, the Node B shall reconfigure the power that the indicated S-CCPCH shall use.]

**FACH:** When one or several FACHs are present Node B reconfigures the indicated FACHs.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power IE*, the Node B shall reconfigure the maximum power that the FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power IE*, the Node B shall reconfigure the maximum power that the FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS IE*, the Node B shall reconfigure the time of arrival window startpoint that the FACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE IE*, the Node B shall reconfigure the time of arrival window endpoint that the FACH shall use.

**PCH:** When the PCH is present Node B reconfigures the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

**PICH:** When a PICH is present Node B reconfigures the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

**[FDD- PRACH]:** When a PRACH is present Node B reconfigures the indicated PRACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Preamble Signatures Information, the Node B shall reconfigure the preamble signatures that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Slot Format Information, the Node B shall reconfigure the slot formats that the PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Allowed Sub Channel Information, the Node B shall reconfigure the sub channel numbers that the PRACH shall use.

**[FDD- AICH]:** When a AICH is present Node B reconfigures the indicated AICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the AICH shall use.

**[FDD- CPCH]:** When a CPCH is present Node B reconfigures the indicated CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes UL SIR Information, the Node B shall reconfigure the UL SIR for the UL power control for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Initial DL transmission Power Information, the Node B shall reconfigure the Initial DL transmission Power for the CPCH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Maximum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a higher power on any DL PCPCHes once the new configuration is being used.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes Minimum DL Power Information, the Node B shall apply this value to the new configuration and never transmit with a lower power on any DL PCPCHes once the new configuration is being used.

**[FDD- AP-AICH]:** When a AP-AICH is present Node B reconfigures the indicated AP-AICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AP-AICH Power* IE, the Node B shall reconfigure the power that the AP-AICH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *CSICH Power* IE, the Node B shall reconfigure the power that the CSICH shall use.

**[FDD-CD/CA-ICH]:**When a CD/CA-ICH is present Node B reconfigures the indicated CD/CA-ICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *CD/CA-AICH Power* IE, the Node B shall reconfigure the power that the CD/CA-AICH shall use.

**[1.28Mcps TDD - FPACH]:**~~When~~ If the FPACH is present included, the Node B shall reconfigures the indicated FPACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FPACH Power* IE, the Node B shall reconfigure the power that the FPACH shall use.

After a successful procedure, the channels have adopted the new configuration in Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. Node B shall store the value of *Configuration Generation ID* IE, and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

\* partly omitted \*/

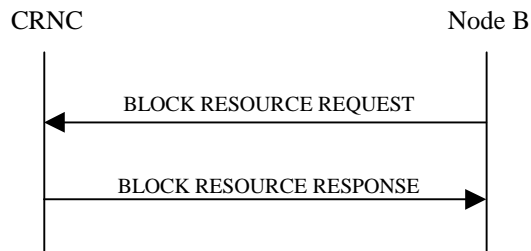
## 8.2.4 Block Resource

### 8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources.

The logical resource that can be blocked is cell.

### 8.2.4.2 Successful Operation



**Figure 6: Block Resource procedure, Successful Operation**

The procedure is initiated with a BLOCK RESOURCE REQUEST message sent from the Node B to the CRNC.

Upon reception of the BLOCK RESOURCE REQUEST message, the CRNC shall prohibit the use of the indicated logical resources according to the *Blocking Priority Indicator IE*.

If the *Blocking Priority Indicator IE* in the BLOCK RESOURCE REQUEST message indicates 'High Priority', the CRNC shall prohibit the use of the logical resources immediately.

The BLOCK RESOURCE REQUEST message shall include the *Shutdown Timer IE* when the *Blocking Priority Indicator IE* indicates 'Normal Priority'. The CRNC shall prohibit the use of the logical resources if the resources are idle or immediately upon expiry of the shutdown timer specified in the message. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the *Blocking Priority Indicator IE* in the BLOCK RESOURCE REQUEST message indicates 'Low Priority', the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the resources are successfully blocked, the CRNC shall respond with a BLOCK RESOURCE RESPONSE message.

Upon reception of the BLOCK RESOURCE RESPONSE message, the Node B may disable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH. The other logical resources in the cell shall be considered as blocked.

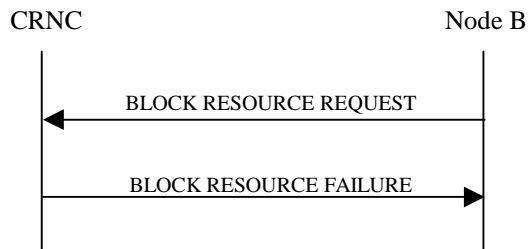
Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.

#### **Interactions with the Unblock Resource procedure:**

If the UNBLOCK RESOURCE INDICATION message is received by the CRNC while a Block Resource procedure on the same logical resources is in progress, the CRNC shall cancel the Block Resource procedure and proceed with the Unblock Resource procedure.

If the BLOCK RESOURCE RESPONSE message or the BLOCK RESOURCE FAILURE message is received by the Node B after the Node B has initiated an Unblock Resource procedure on the same logical resources as the ongoing Block Resource procedure, the Node B shall ignore the response to the Block Resource procedure.

### 8.2.4.3 Unsuccessful Operation



**Figure 7: Block Resource procedure, Unsuccessful Operation**

The CRNC may reject the request to block the logical resources, in which case the logical resources will remain unaffected and the CRNC shall respond to the Node B with the BLOCK RESOURCE FAILURE message. Upon reception of the BLOCK RESOURCE FAILURE message, the Node B shall leave the logical resources in the state that they were in prior to the start of the Block Resource procedure.

Typical cause values are as follows:

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

**Radio Network Layer Cause**

- Priority transport channel established

### 8.2.4.4 Abnormal Conditions

-

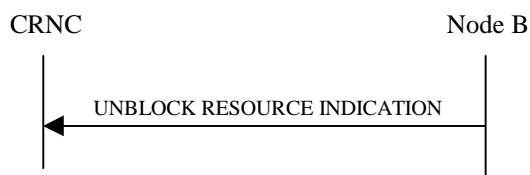
## 8.2.5 Unblock Resource

### 8.2.5.1 General

The Node B initiates this procedure to indicate to the CRNC that logical resources are now unblocked.

The logical resource that can be unblocked is cell.

### 8.2.5.2 Successful Operation



**Figure 8: Unblock Resource procedure, Successful Operation**

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC. Node B shall enable [TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH(s) (if present)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH that had been disabled due to the preceding Block Resource procedure before sending the UNBLOCK RESOURCE INDICATION message. Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

When the logical resource indicated is a cell, all associated physical channels and transport channels are unblocked.

### 8.2.5.3 Abnormal Conditions

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/\* partly omitted \*/

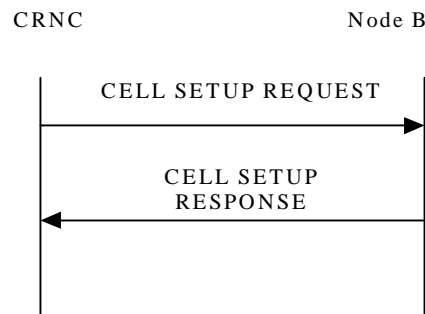


## 8.2.12 Cell Setup

### 8.2.12.1 General

This procedure is used to set up a cell in Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

### 8.2.12.2 Successful Operation



**Figure 14: Cell Setup procedure: Successful Operation**

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE group the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

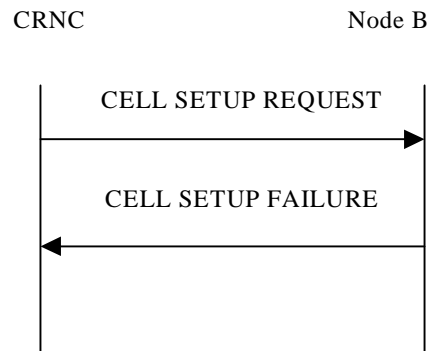
The *Maximum Transmission Power* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

When the cell is successfully configured the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD- When the cell is successfully configured CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD- When the cell is successfully configured SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD frame structure are defined.][1.28Mcps TDD - When the cell is successfully configured, DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to state Enabled [6].

### 8.2.12.3 Unsuccessful Operation



**Figure 15: Cell Setup procedure: Unsuccessful Operation**

If the state of the cell already is Enabled or Disabled [6] when the CELL SETUP REQUEST message is received in Node B, it shall reject the configuration of the cell and all channels in the CELL SETUP REQUEST message with the *Cause* IE set to "Message not compatible with receiver state".

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to CRNC.

In this case the cell is Non Existing in Node B. The Configuration Generation ID shall not be changed in Node B.

The *Cause* IE shall be set to an appropriate value.

Typical cause values are as follows:

#### Radio Network Layer Cause

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Unknown Local Cell ID
- Power level not supported
- Node B Resources unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.2.12.4 Abnormal Conditions

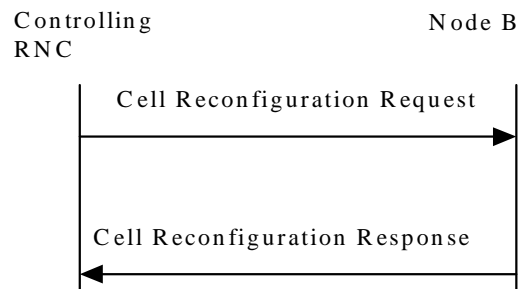
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## 8.2.13 Cell Reconfiguration

### 8.2.13.1 General

This procedure is used to reconfigure a cell in Node B.

### 8.2.13.2 Successful Operation



**Figure 16: Cell Reconfiguration procedure: Successful Operation**

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE group the Node B shall reconfigure Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE group the Node B shall reconfigure Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE group the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE groups the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE group the Node B shall reconfigure SCH power in the cell according to the *SCH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure BCH power in the cell according to the *BCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE group the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information* IE group the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *Constant Value IE*'s, the Node B shall use these values when generating the appropriate SIB.]

When the cell is successfully reconfigured the Node B shall store the new *Configuration Generation ID IE* value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration IE* the Node B shall reconfigure the indicated parameters in the cell according to the IE value. When the parameters in the *Synchronisation Configuration IE* group affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

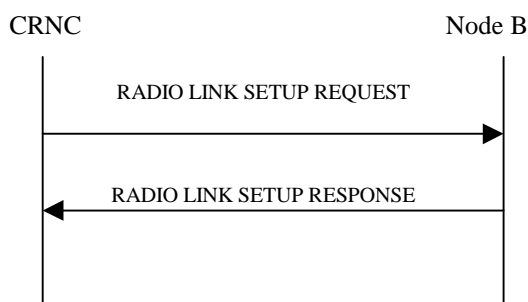
/\* partly omitted \*/

## 8.2.17 Radio Link Setup

### 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

### 8.2.17.2 Successful Operation



**Figure 24: Radio Link Setup procedure: Successful Operation**

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to Node B.

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

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

[FDD - The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE indicates, "may be combined with already existing RLs", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD – If the received *Limited Power Increase* IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] section 5.2.1 for the inner loop DL power control.]

[FDD – If the received *Inner Loop DL PC Status* IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If *Inner Loop DL PC Status* IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10]]

[TDD -If the *DCH Information* IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message. ]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Info* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected” shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to “non-selected” the Physical channel BER shall be used for the QE, ref. [16]].]

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

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

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

[FDD - If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[FDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code of the RL until either UL synchronisation is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], chapter 5.2.1.2) with DPC MODE=0 and the power control procedure (see 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code and on each Time Slot of the RL until the UL synchronisation is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], chapter 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

If the *DSCH Information* IE Group is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE, the Node B shall activate SSDT, if supported, using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of *ToAWS* and *ToAWE* specified in the IE's. The *Binding ID* IE and *Transport Layer Address* IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the *TFCI Signaling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power.]

[FDD - If the *TFCI Signaling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer (see ref.[24]).]

[FDD - If the RADIO LINK SETUP REQUEST message contains an *SSDT Cell Identity* IE the Node B shall activate SSDT, if supported, for the concerned new RL, with the indicated cell identity used for that RL.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD- If the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall immediately activate the indicated Transmission Gap Pattern Sequences. For each sequence the *TGCFN* refers to the latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in subclause 8.3.12.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B 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 Node B Communication context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B 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 Node B Communication context.]

[TDD -If the *USCH Information* IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message. ]

[TDD – If the [\[3.84Mcps TDD - DL Timeslot ISCP IE\]](#) or [\[1.28Mcps TDD - DL Timeslot ISCP LCR IE\]](#) is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD - The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.

[TDD – In case the *USCH Information* IE is present, the Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].

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

[FDD - Irrespective of SSDT activation, the Node B 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 Node B.]

[FDD –The UL out-of-sync algorithm defined in [10] shall for each of the established RL Set(s) 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 cells supporting the radio links of the RL Set].

/\* partly omitted \*/



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## 9 Elements for NBAP communication

/\* partly omitted \*/

### 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

/\* partly omitted \*/

## 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>common physical channels to be configured</i>	M				YES	ignore
>Secondary CCPCHs					–	
>>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCS	M		9.2.1.58	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>>TFCI Coding	M		9.2.3.22		–	
>>Puncture Limit	M		9.2.1.50		–	
>>>Secondary CCPCH		40..<maxnoof S-CCPCHs>		Mandatory For 3.84Mcps TDD only	GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble shift and Burst Type	M		9.2.3.7		–	
>>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>>Repetition Period	M		9.2.3.16		–	
>>>Repetition Length	M		9.2.3.15		–	
>>>S-CCPCH Power	M		DL Power 9.2.1.21		–	
>>>FACH	C ChoiceCh	0..<maxnoof FACHs>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>CCTrCH ID	M		9.2.3.3		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	

>>>Max FACH Power	<u>O</u>		DL Power 9.2.1.21	For 1.28Mcps TDD only	-YES	reject
>>PCH	C ChoiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>CCTrCH ID	M		9.2.3.3		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
>>>PICH Parameters	<u>e</u>	0..1		Mandatory For 3.84Mcps TDD only	YES	reject
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>Time Slot	M		9.2.3.23		-	
>>>>Midamble shift and Burst Type	M		9.2.3.7		-	
>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>Repetition period	M		9.2.3.16		-	
>>>>Repetition length	M		9.2.3.15		-	
>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>PICH Power	M		9.2.1.49A		-	
>>>PCH Power	<u>O</u>		DL Power 9.2.1.21	For 1.28Mcps TDD only	=	
>>>PICH Parameters LCR	<u>e</u>	0..1		Mandatory For 1.28Mcps TDD only	YES	reject
>>>>Common Physical Channel ID	<u>M</u>		9.2.1.13		=	
>>>>TDD Channelisation Code LCR	<u>M</u>		9.2.3.x5		=	
>>>>Time Slot LCR	<u>M</u>		9.2.3.x2		=	
>>>>Midamble shift LCR	<u>M</u>		9.2.3.x6		=	
>>>>TDD Physical Channel Offset	<u>M</u>		9.2.3.20		=	
>>>>Repetition period	<u>M</u>		9.2.3.16		=	
>>>>Repetition length	<u>M</u>		9.2.3.15		=	
>>>>Paging Indicator Length	<u>M</u>		9.2.3.8		=	
>>>>PICH Power	<u>M</u>		9.2.1.49A		=	

>>Secondary CCPC LCR	<u>Q</u>	40..<maxnoofS-CCPC HLCRs>		Mandatory For 1.28Mcps TDD only	GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		=	
>>>TDD Channelisation Code LCR	M		9.2.3.x5		=	
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>Midamble shift LCR	M		9.2.3.x6		=	
>>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>>Repetition Period	M		9.2.3.16		=	
>>>Repetition Length	M		9.2.3.15		=	
>PRACH					-	
>>PRACH	<u>Q</u>	0..1		Mandatory For 3.84Mcps TDD only	YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>TFCS	M		9.2.1.58		-	
>>>Time Slot	M		9.2.3.23		-	
>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>Max PRACH Midamble Shifts	M		9.2.3.6		-	
>>>PRACH Midamble	M		9.2.3.14		-	
>>>RACH		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL	-	
>>PRACH LCR	<u>Q</u>	04 .. <maxnoofPRACH LCRs>		Mandatory For 1.28Mcps TDD only	YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		=	
>>>TFCS	M		9.2.1.58		=	
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>TDD Channelisation Code LCR	M		9.2.3.x5		=	
>>>Max PRACH Midamble Shifts	M		9.2.3.6		=	
>>>PRACH Midamble	M		9.2.3.14		=	
>>>RACH		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		=	
>>>>Transport Format Set	M		9.2.1.59	For the UL	=	
>>FPACH	<u>Q</u>	0..1		Mandatory For 1.28Mcps TDD only	GLOBAL	reject

>>>Common Physical Channel ID	M		9.2.1.13		=	
>>>TDD Channelisation Code LCR	M		9.2.3.x5		=	
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>Midamble shift LCR	M		9.2.3.x6		=	
>>>Max FPACH Power	M		9.2.3.x1		=	

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofS-CCPCHs</i>	Maximum number of Secondary CCPCHs per CTrCH for 3.84Mcps TDD.
<i>MaxnoofS-CCPCHLCRs</i>	Maximum number of Secondary CCPCHs per CTrCH for 1.28Mcps TDD.
<i>MaxnoofCTrCHs</i>	Maximum number of CTrCHs that can be defined in a cell.
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxnoofPRACHLCRs</i>	Maximum number of PRACH LCR that can be defined on a RACH for 1.28Mcps TDD.

/\* partly omitted \*/

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

/\* partly omitted \*/

### 9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>Secondary CCPCH parameters</b>		0 .. 1			YES	reject

>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>Secondary CCPCHs to be configured		0..<MaxnoofS CCPCHs>			GLOBAL	reject
>>Common Physical Channel ID	M		9.2.1.13		–	
>>S-CCPCH Power	O		DL power 9.2.1.21	For 3.84Mcps TDD only	–	
<b>PICH Parameters</b>		0 .. 1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>PICH Power	O		9.2.1.49A		–	
<b>FACH parameters</b>		0..<Maxno ofFACHs>			GLOBAL	reject
>Common Transport Channel ID	M		9.2.1.14		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
>Max FACH Power	O		DL Power 9.2.1.21	For 1.28Mcps TDD only		
<b>PCH parameters</b>		0 .. 1			YES	reject
>Common Transport Channel ID	M		9.2.1.14		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
>PCH Power	O		DL Power 9.2.1.21	For 1.28Mcps TDD only		
<b>FPACH parameters</b>	O	0..1		Mandatory for 1.28Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Max FPACH Power	O		9.2.3.x1		–	

/\* partly omitted \*/

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
End Of Audit Sequence Indicator	M		9.2.1.29A		YES	ignore
<b>Cell Information</b>		0.. <maxCellin NodeB >			EACH	ignore
>C-ID	M		9.2.1.9		–	
>Configuration Generation ID	M		9.2.1.16		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on	–	
>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>BCH Information	O		Common Transport Channel Status Information 9.2.1.13A		YES	ignore



<b>&gt;Secondary CCPCH Information</b>		<i>0..&lt;maxSC CPCHCell &gt;</i>			EACH	ignore
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;FACH Information</b>		<i>0..&lt;maxFA CHCell&gt;</i>			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;PRACH Information</b>		<i>0..&lt;maxPR ACHCell&gt;</i>			EACH	ignore
>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;RACH Information</b>		<i>0..&lt;maxRA CHCell&gt;</i>			EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;AICH Information</b>		<i>0..&lt;maxRA CHCell&gt;</i>			EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;PCPCH Information</b>		<i>0..&lt;maxPC PCHCell&gt;</i>			EACH	ignore
>>PCPCH Individual Information	M		Common Physical Channel Status Information		–	

			9.2.1.13A			
<b>&gt;CPCH Information</b>		0..<maxCP CHCell>			EACH	ignore
>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;AP-AICH Information</b>		0..<maxCP CHCell>			EACH	ignore
>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;CD/CA-ICH Information</b>		0..<maxCP CHCell>			EACH	ignore
>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel For 3.84Mcps TDD only	YES	ignore
<b>&gt;FPACH Information</b>		0..<maxFP ACHCell>		For 1.28Mcps TDD only	<u>EACH</u>	<u>ignore</u>
<u>&gt;&gt;FPACH Individual Information</u>	<u>M</u>		<u>Common Physical Channel Status Information 9.2.1.13A</u>		<u>:</u>	
<b>&gt;DwPCH Information</b>	<u>O</u>		<u>Common Physical Channel Status Information 9.2.1.13A</u>	For 1.28Mcps TDD only	<u>YES</u>	<u>ignore</u>
<b>Communication Control Port Information</b>		0.. <maxCCPi nNodeB>			EACH	ignore
>Communication Control Port ID	M		9.2.1.15		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
<b>Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	Ignore
>Local Cell ID	M		9.2.1.38		–	

>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
>Maximum DL Power Capability	O		9.2.1.39		-	
>Minimum Spreading Factor	O		9.2.1.47		-	
>Minimum DL Power Capability	O		9.2.1.46A		-	
>Local Cell Group ID	O		9.2.1.37A		-	
<b>Local Cell Group Information</b>		<i>0.. &lt;maxLocalCellinNodeB&gt;</i>			EACH	Ignore
>Local Cell Group ID	M		9.2.1.37A		-	
>DL or Global Capacity Credit	M		9.2.1.20B		-	
>UL Capacity Credit	O		9.2.1.65A		-	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		-	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
MaxCellinNodeB	Maximum number of Cell that can be configured in Node B
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell
<u>MaxFPACHCell</u>	<u>Maximum number of FPACHes that can be defined in a Cell</u>

/\* partly omitted \*/

## 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	reject
Common Measurement Object Type	M		9.2.1.10		YES	reject
CHOICE Common Measurement Object Type	M				YES	reject
>Cell					–	
>>C-ID	M		9.2.1.9		–	
>>Time Slot	O		9.2.3.23	For 3.84Mcps TDD only	–	
>>Time Slot LCR	O		9.2.3.x2	For 1.28Mcps TDD only	YES	reject
>RACH				FDD only	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport Channel ID	M		9.2.1.14		–	
>CPCH				FDD only	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Spreading Factor	O		Minimum UL Channelisation Code Length 9.2.2.22		–	
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
SFN reporting indicator	M		FN reporting indicator 9.2.1.29B		YES	reject
SFN	O		9.2.1.53A		YES	reject

## 9.1.24 CELL SETUP REQUEST

/\* partly omitted \*/

## 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Local Cell ID	M		9.2.1.38		YES	reject
C-ID	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nt [15]	YES	reject
Cell Parameter ID	M		9.2.3.4		YES	reject
Maximum Transmission Power	M		9.2.1.40		YES	reject
Transmission Diversity Applied	M		9.2.3.26	On DCHs	YES	reject
Sync Case	M		9.2.3.18		YES	reject
<b>Synchronisation Configuration</b>		1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		–	
>N_OUTSYNC_IND	M		9.2.1.47B		–	
>T_RLFAILURE	M		9.2.1.56A		–	
DPCH Constant Value	M		Constant Value		YES	reject
PUSCH Constant Value	M		Constant Value		YES	reject
PRACH Constant Value	M		Constant Value		YES	reject
Timing Advance Applied	M		9.2.3.22A		YES	reject
<b>SCH Information</b>	Ⓜ	0..1		Mandatory For 3.84Mcps TDD only	YES	reject
>Common physical channel ID	M		9.2.1.13		–	
>CHOICE Sync Case	M				YES	reject
>>Case 1					–	
>>>Time Slot	M		9.2.3.23		–	
>>Case 2					–	
>>>SCH Time Slot	M		9.2.3.17		–	
>SCH Power	M		DL Power 9.2.1.21		–	
>TSTD Indicator	M		9.2.1.64		–	
<b>PCCPCH Information</b>	Ⓜ	0..1		Mandatory For 3.84Mcps TDD only	YES	reject
>Common physical channel ID	M		9.2.1.13		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>PCCPCH Power	M		9.2.3.9		–	
>Block STTD Indicator	M		9.2.3.1		–	
<b>Time Slot Configuration</b>	Ⓜ	4-0..15		Mandatory For 3.84Mcps TDD only	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	

<b>Time Slot Configuration LCR</b>	<b>Q</b>	<b>40..7</b>		Mandatory For 1.28Mcps TDD only	<b>GLOBAL</b>	<b>reject</b>
>Time Slot LCR	M		9.2.3.x2		=	
>Time Slot Status	M		9.2.3.25		=	
>Time Slot Direction	M		9.2.3.24		=	
<b>PCCPCH Information LCR</b>	<b>Q</b>	<b>0..1</b>		Mandatory For 1.28Mcps TDD only	<b>YES</b>	<b>reject</b>
>Common physical channel ID	M		9.2.1.13		=	
>Time Slot LCR	M		9.2.3.x2		=	
>TDD Physical Channel Offset	M		9.2.3.20		=	
>Repetition Period	M		9.2.3.16		=	
>Repetition Length	M		9.2.3.15		=	
>PCCPCH Power	M		9.2.3.9		=	
>Block STTD Indicator	M		9.2.3.1		=	
>TSTD Indicator	M		9.2.1.64		=	
<b>DwPCH Information</b>	<b>Q</b>	<b>0..1</b>		Mandatory For 1.28Mcps TDD only	<b>YES</b>	<b>reject</b>
>Common Physical Channel ID	M		9.2.1.13		=	
>TSTD Indicator	M		9.2.1.64		=	
>SYNC_DL Code ID	M		9.2.3.x4		=	
>DwPCH Power	M		9.2.3.x3		=	

/\* partly omitted \*/

## 9.1.27 CELL RECONFIGURATION REQUEST

/\* partly omitted \*/

## 9.1.27.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>Synchronisation Configuration</b>		0,1			YES	reject
>N_INSYNC_IND	M		9.2.1.47A		–	
>N_OUTSYNC_IND	M		9.2.1.47B		–	
>T_RLFAILURE	M		9.2.1.56A		–	
Timing Advance Applied	O		9.2.3.22A	For 3.84Mcps TDD only	YES	reject
<b>SCH Information</b>	<u>0</u>	0,1		For 3.84Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>SCH Power	M		DL Power 9.2.1.21		–	
<b>PCCPCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>PCCPCH Power	M		9.2.3.9		–	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value		YES	reject
PUSCH Constant Value	O		Constant Value		YES	reject
PRACH Constant Value	O		Constant Value		YES	reject
<b>Time Slot Configuration</b>	<u>0</u>	04..15		Mandatory For 3.84Mcps TDD only	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
<b>Time Slot Configuration LCR</b>	<u>0</u>	40..7		Mandatory For 1.28Mcps TDD only	GLOBAL	reject
>Time Slot LCR	M		9.2.3.x2		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	
<b>DwPCH Information</b>	<u>0</u>	0..1		Mandatory For 1.28Mcps TDD only	YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>DwPCH Power	M		9.2.3.x3		–	

/\* partly omitted \*/



## 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
Indication Type	M		9.2.1.36		YES	ignore
CHOICE <i>Indication Type</i>	M				YES	ignore
> <i>No Failure</i>					–	
<b>&gt;&gt;Local Cell Information</b>		1.. <max LocalCellin NodeB >			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>Add/Delete Indicator	M		9.2.1.1		–	
>>>DL or Global Capacity Credit	C-add		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		–	
>>>Maximum DL Power Capability	C-add		9.2.1.39		–	
>>>Minimum Spreading Factor	C-add		9.2.1.47		–	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		–	
>>>Local Cell Group ID	O		9.2.1.37A		–	
<b>&gt;&gt;Local Cell Group Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		–	
>>>DL or Global Capacity Credit	M		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
> <i>Service Impacting</i>					–	
<b>&gt;&gt;Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>DL or Global Capacity Credit	O		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption	O		9.2.2.3		–	

Law						
>>>Dedicated Channels Capacity Consumption Law	O		9.2.2.6		-	
>>>Maximum DL Power Capability	O		9.2.1.39		-	
>>>Minimum Spreading Factor	O		9.2.1.47		-	
>>>Minimum DL Power Capability	O		9.2.1.46A		-	
<b>&gt;&gt;Local Cell Group Information</b>		<i>0.. &lt;maxLocal CellinNode B&gt;</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		-	
>>>DL or Global Capacity Credit	O		9.2.2.12		-	
>>>UL Capacity Credit	O		9.2.2.60		-	
>>>Common Channels Capacity Consumption Law	O		9.2.2.3		-	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.2.6		-	
<b>&gt;&gt;Communication Control Port Information</b>		<i>0.. &lt;maxCCPi nNodeB&gt;</i>			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Cell Information</b>		<i>0.. &lt;maxCellin NodeB&gt;</i>			EACH	ignore
>>>C-ID	M		9.2.1.9		-	
>>>Resource Operational State	O		9.2.1.52		-	
>>>Availability Status	O		9.2.1.2		-	
>>>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;&gt;&gt;Secondary CPICH Information</b>		<i>0..&lt;maxSC PICHCell&gt;</i>			EACH	ignore
>>>>Secondary	M		Common		-	

CPICH Individual Information			Physical Channel Status Information 9.2.1.13A			
>>>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>Secondary CCPCH Information		<i>0..&lt;maxSC CPCHCell &gt;</i>			EACH	ignore
>>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FACH Information		<i>0..&lt;maxFACHCell&gt;</i>			EACH	ignore
>>>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
>>>PRACH Information		<i>0..&lt;maxPRACHCell&gt;</i>			EACH	ignore
>>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>RACH Information		<i>0..&lt;maxPRACHCell&gt;</i>			EACH	ignore
>>>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
>>>AICH Information		<i>0..&lt;maxPRACHCell&gt;</i>			EACH	ignore

>>>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>PCPCH Information		0..<maxPC PCHCell>			EACH	ignore
>>>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>CPCH Information		0..<maxCPC HCell>			EACH	ignore
>>>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>AP-AICH Information		0..<maxCPC HCell>			EACH	ignore
>>>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>CD/CA-ICH Information		0..<maxCPC HCell>			EACH	ignore
>>>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FPACH Information		0..<maxFPA CHCell>		For 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		=	
>>>>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	For 1.28Mcps TDD only	YES	ignore
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
C-add	This IE is present only if "Add/Delete Indicator" equals to add

Range bound	Explanation
<i>MaxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>MaxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>MaxCPCHCell</i>	Maximum number of CPCHes that can be defined in a Cell
<i>MaxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>MaxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>MaxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>MaxPCPCHCell</i>	Maximum number of PCPCHes that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>MaxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B
<u><i>MaxFPACHCell</i></u>	<u>Maximum number of FPACHes that can be defined in a Cell</u>

/\* partly omitted \*/

## 9.1.36 RADIO LINK SETUP REQUEST

/\* partly omitted \*/

## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>	<u>Ⓞ</u>	0..1		<u>For 3.84Mcps TDD only</u>	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information	M		9.2.3.26C		–	
<b>&gt;UL DPCH Information LCR</b>	<u>Ⓞ</u>	<u>0..1</u>		<u>For 1.28Mcps TDD only</u>	<u>YES</u>	<u>notify</u>
>>Repetition Period	<u>M</u>		<u>9.2.3.16</u>		<u>–</u>	
>>Repetition Length	<u>M</u>		<u>9.2.3.15</u>		<u>–</u>	
>>TDD DPCH Offset	<u>M</u>		<u>9.2.3.19A</u>		<u>–</u>	
>>UL Timeslot Information LCR	<u>M</u>		<u>9.2.3.x8</u>		<u>–</u>	
<b>DL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>TDD TPC DL Step Size	M		9.2.3.21		–	
<b>&gt;TPC CCTrCH List</b>		0 to <maxno CCTrCH>		List of uplink CCTrCH which provide TPC	–	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		–	
<b>&gt;DL DPCH information</b>	<u>Ⓞ</u>	0..1		<u>For 3.84Mcps TDD only</u>	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>DL Timeslot Information	M		9.2.3.4E		–	
<b>&gt;DL DPCH information LCR</b>	<u>Ⓞ</u>	<u>0..1</u>		<u>For 1.28Mcps</u>	<u>YES</u>	<u>notify</u>

				TDD only		
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.19A		=	
>>DL Timeslot Information LCR	M		9.2.3.x7		=	
>>TSTD Indicator	M		9.2.1.64		=	
DCH Information	O		DCH TDD Information 9.2.3.4C		YES	reject
DSCH Information	O		DSCH TDD Information 9.2.3.5A		YES	reject
USCH Information	O		9.2.3.28		YES	reject
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		-	
>C-ID	M		9.2.1.9		-	
>Frame Offset	M		9.2.1.31		-	
>Initial DL transmission Power	M		DL Power 9.2.1.21		-	
>Maximum DL power	M		DL Power 9.2.1.21		-	
>Minimum DL power	M		DL Power 9.2.1.21		-	
>DL Timeslot ISCP Information	e	0..<maxno ofDLts>		For 3.84Mcps TDD only	-	
>>Time slot	M		9.2.3.23		-	
>>DL Timeslot ISCP	M		9.2.3.4B		-	
>DL Timeslot ISCP Information LCR	e	±0 .. <Maxnoof DLtsLCR>		For 1.28Mcps TDD only	-GLOBAL	reject
>>Time slot LCR	M		9.2.3.x2		=	
>>DL Timeslot ISCP	M		9.2.3.4B		=	

Range bound	Explanation
MaxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD.
MaxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.

/\* partly omitted \*/



## 9.1.37 RADIO LINK SETUP RESPONSE

/\* partly omitted \*/

## 9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>	<u>Ⓜ</u>	<u>0..1</u>		<u>Mandatory For 3.84Mcps TDD only</u>	YES	ignore
>RL ID	M		9.2.1.53		–	
>UL Time Slot ISCP Info	M		9.2.3.26D		–	
>UL PhysCH SF Variation	M		9.2.3.26B		–	
>DCH Information Response	O		9.2.1.20C		YES	ignore
>DSCH Information Response	O		9.2.1.27A		YES	ignore
>USCH Information Response	O		9.2.3.28		YES	ignore
<u>RL Information Response LCR</u>	<u>Ⓜ</u>	<u>0..1</u>		<u>Mandatory For 1.28Mcps TDD only</u>	<u>YES</u>	<u>ignore</u>
<u>&gt;RL ID</u>	<u>M</u>		<u>9.2.1.53</u>		<u>=</u>	
<u>&gt;UL Time Slot ISCP Info LCR</u>	<u>M</u>		<u>9.2.3.x11</u>		<u>=</u>	
<u>&gt;UL PhysCH SF Variation</u>	<u>M</u>		<u>9.2.3.26B</u>		<u>=</u>	
<u>&gt;DCH Information Response</u>	<u>O</u>		<u>9.2.1.20C</u>		<u>YES</u>	<u>ignore</u>
<u>&gt;DSCH Information Response</u>	<u>O</u>		<u>9.2.1.27A</u>		<u>YES</u>	<u>ignore</u>
<u>&gt;USCH Information Response</u>	<u>O</u>		<u>9.2.3.28</u>		<u>YES</u>	<u>ignore</u>
Criticality Diagnostics	O		9.2.1.17		YES	ignore

/\* partly omitted \*/

9.2.1.24 Dedicated Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Dedicated measurement Value</b>				
>SIR value	C <i>MeasValue</i>		INTEGER(0..63)	According to mapping in [22] and [23]
>SIR error Value	C <i>MeasValue</i>		INTEGER(0..125)	According to mapping in [22], <del>{FDD only}</del>
>Transmitted Code Power Value	C <i>MeasValue</i>		INTEGER(0..127)	According to mapping in [22] and [23]
>RSCP	C <i>MeasValue</i>		INTEGER(0..81)	According to mapping in [23], <del>{TDD only}</del>
>Rx Timing Deviation	C <i>MeasValue</i>		INTEGER(0..2047)	According to mapping in [23], <del>{3.84Mcps TDD only}</del>
>Round Trip Time	C <i>MeasValue</i>		INTEGER(0..32767)	According to mapping in [22], <del>{FDD only}</del>

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

/\* partly omitted \*/

### 9.2.1.44 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
Received total wide band power	C – Threshold		INTEGER(0..621)	According to mapping in [22] and [23]
Transmitted Carrier Power	C – Threshold		INTEGER(0..100)	According to mapping in [22] and [23]
Acknowledged PRACH Preambles	C – Threshold		INTEGER(0..240,...)	According to mapping in [22], <del>{FDD only}</del>
UL Timeslot ISCP	C – Threshold		INTEGER(0..81)	According to mapping in [23] <del>{TDD only}</del>
SIR	C – Threshold		INTEGER(0..63)	According to mapping in [22] and [23]
SIR Error	C – Threshold		INTEGER(0..125)	According to mapping in [22], <del>{FDD only}</del>
Transmitted Code Power	C – Threshold		INTEGER(0..127)	According to mapping in [22] and [23]
RSCP	C – Threshold		INTEGER(0..81)	According to mapping in [23] <del>{TDD only}</del>
Rx Timing Deviation	C - Threshold		INTEGER(0..2047)	According to mapping in [23] <del>{3.84Mcps TDD only}</del>
Round Trip Time	C – Threshold		INTEGER(0..32767)	According to mapping in [22] <del>{FDD only}</del>
Acknowledged PCPCH Access Preambles	C – Threshold		INTEGER(0..15,...)	According to mapping in [22] <del>{FDD only}</del>
Detected PCPCH Access Preambles	C – Threshold		INTEGER(0..240,...)	According to mapping in [22] <del>{FDD only}</del>

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

/\* partly omitted \*/

### 9.2.1.54 Sync Case

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

- Case 1) SCH and PCCPCH allocated in a single TS#k
- Case 2) SCH allocated in two TS: TS#k and TS#k+8  
PCCPCH allocated in TS#k

[1.28Mcps TDD - There is no Sync Case indication needed for 1.28Mcps TDD. If the Sync Case IE must be included in a message from CRNC to Node B used for 1.28Mcps TDD, the CRNC should indicate Sync Case 1 and the Node B shall ignore it.]  
~~There is no Sync Case IE needed for 1.28Mcps TDD. If a Sync Case IE must be used for 1.28Mcps TDD use Case 1 and do not evaluate it.~~

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

/\* partly omitted \*/

### 9.2.3.22A Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

For 1.28Mcps TDD this IE must be set “No”

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

/\* partly omitted \*/

### 9.2.3.x1 Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max FPACH Power			Enumerated(-10..+5dB,...)	Step 1dB

### 9.2.3.x2 Time Slot LCR

The Time Slot LCR represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel in 1.28Mcps TDD.

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

### 9.2.3.x3 DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DwPCH Power			Enumerated(-10..+5dB,...)	Step 1dB

### 9.2.3.x4 SYNC DL Code ID

The SYNC DL Code ID identifies the SYNC DL Code which used by DwPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SYNC DL Code ID			INTEGER (1..32,...)	

### 9.2.3.x5 TDD Channelisation Code LCR

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

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>CHOICE SF</u>				
> <u>SF=1</u>			Enumerated(QPSK, 8PSK,...)	Modulation options in contrast to 3.84Mcps TDD mode
> <u>Otherwise</u>				
>> <u>TDD Channelisation Code</u>			ENUMERATED ((1/1), (2/1), (2/2), (4/1)...(4/4), (8/1), (8/8), (16/1)... (16/16)....)	

<u>CHOICE SF</u>	<u>Condition under which the given SF is chosen</u>
<u>SF =1</u>	"spreading factor" is set to 1
<u>otherwise</u>	"spreading factor" is set to a value distinct from 1

### 9.2.3.x6 Midamble shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

<u>IE/Group name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Midamble Allocation Mode</u>	<u>M</u>		Enumerated (Default midamble, Common midamble, UE specific midamble)	
<u>Midamble Shift LCR</u>	<u>C-UE</u>		Integer(0..15)	

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

### 9.2.3.x7 DL Timeslot Information LCR

The *DL Timeslot Information LCR* IE provides information for DL Time slot to be established.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>DL Timeslot Information LCR</u>		<u>1..&lt;MaxnoofDLtsLCR&gt;</u>			=	
>Time Slot LCR	<u>M</u>		<u>9.2.3.x2</u>		=	
>Midamble Shift LCR	<u>M</u>		<u>9.2.3.x6</u>		=	
>TFCI Presence	<u>M</u>		<u>9.2.1.57</u>		=	
>DL Code Information	<u>M</u>		<u>TDD DL Code Information LCR 9.2.3.x9</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofDLtsLCR</u>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.

### 9.2.3.x8 UL Timeslot Information LCR

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>UL Timeslot Information LCR</u>		<u>1..&lt;MaxnoofULtsLCR&gt;</u>			=	
>Time Slot LCR	<u>M</u>		<u>9.2.3.x2</u>		=	
>Midamble Shift LCR	<u>M</u>		<u>9.2.3.x6</u>		=	
>TFCI Presence	<u>M</u>		<u>9.2.1.57</u>		=	
> UL Code Information	<u>M</u>		<u>TDD UL Code Information LCR 9.2.3.x10</u>			

<u>Range bound</u>	<u>Explanation</u>
<u>MaxnoofULtsLCR</u>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD.

### 9.2.3.x9 TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<u>TDD DL Code Information LCR</u>		<u>1..&lt;maxnoOfDPCHLCR&gt;</u>			=	
>DPCH ID	<u>M</u>		<u>9.2.3.5</u>		=	
>TDD Channelisation Code LCR	<u>M</u>		<u>9.2.3.x5</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<i>maxnoOfDPCHLCR</i>	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD

### 9.2.3.x10 TDD UL Code Information LCR

The *TDD UL Code Information LCR* IE provides information for UL Code to be established.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b><u>TDD UL Code Information LCR</u></b>		<i>1.. &lt;maxnoOfDPCHLCR&gt;</i>			=	
>DPCH ID	<u>M</u>		<u>9.2.3.5</u>		=	
>TDD Channelisation Code LCR	<u>M</u>		<u>9.2.3.x5</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<i>MaxnoOfDPCHLCR</i>	Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD.

### 9.2.3.x11 UL Time Slot ISCP Info LCR

The *UL Time Slot ISCP Info LCR* IE provides information for UL Interference level for each time slot within the Radio Link.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics descriptions</u>	<u>Criticality</u>	<u>Assigned Criticality</u>
<b><u>UL Time Slot ISCP Info LCR</u></b>		<i>1.. &lt;MaxnoofULtsLCR&gt;</i>			=	
>Time Slot LCR	<u>M</u>		<u>9.2.3.x2</u>		=	
>UL Timeslot ISCP	<u>M</u>		<u>9.2.3.26A</u>		=	

<u>Range bound</u>	<u>Explanation</u>
<i>MaxnoofULtsLCR</i>	Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD



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Partly omitted
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.

```

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-Power,
    AICH-TransmissionTiming,
    AllocationRetentionPriority,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,

```

CommonChannelsCapacityConsumptionLaw,  
Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
CommonMeasurementType,  
CommonMeasurementValue,  
CommonMeasurementValueInformation,  
CommonPhysicalChannelID,  
Common-PhysicalChannel-Status-Information,  
Common-TransportChannel-Status-Information,  
CommonTransportChannelID,  
CommonTransportChannel-InformationResponse,  
CommunicationControlPortID,  
ConfigurationGenerationID,  
ConstantValue,  
CriticalityDiagnostics,  
CPCH-Allowed-Total-Rate,  
CPCHScramblingCodeNumber,  
CPCH-UL-DPCCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-FDD-Information,  
DCH-InformationResponse,  
DCH-ID,  
FDD-DCHs-to-Modify,  
TDD-DCHs-to-Modify,  
DCH-TDD-Information,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DedicatedMeasurementValueInformation,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-Timeslot-Information,  
DL-TimeslotLCR-Information,  
DL-TimeslotISCPInfo,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
DSCH-FDD-Information,  
DSCH-InformationResponse,  
DSCH-TDD-Information,  
DwPCH-Power,  
End-Of-Audit-Sequence-Indicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,

FrameHandlingPriority,  
FrameOffset,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
InnerLoopDLPCStatus,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaxFPACH-Power,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftLCR,  
MinimumDL-PowerCapability,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PICH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,

PUSCH-ID,  
 QE-Selector,  
 RACH-SlotFormat,  
 RACH-SubChannelNumbers,  
 RepetitionLength,  
 RepetitionPeriod,  
 ReportCharacteristics,  
 ResourceOperationalState,  
 RL-Set-ID,  
 RL-ID,  
 Received-total-wide-band-power-Value,  
 AdjustmentPeriod,  
 ScaledAdjustmentRatio,  
 MaxAdjustmentStep,  
 ScramblingCodeNumber,  
 SecondaryCCPCH-SlotFormat,  
 Segment-Type,  
 S-FieldLength,  
 SFN,  
 ShutdownTimer,  
 SIB-Originator,  
 SSDD-Cell-Identity,  
 SSDD-CellID-Length,  
 SSDD-Indication,  
 Start-Of-Audit-Sequence-Indicator,  
 STTD-Indicator,  
 SSDD-SupportIndicator,  
 SyncCase,  
SYNCD1CodeId,  
 T-Cell,  
 T-RLFAILURE,  
 TDD-ChannelisationCode,  
TDD-ChannelisationCodeLCR,  
TDD-DL-Code-LCR-Information,  
 TDD-DPCHOffset,  
 TDD-TPC-DownlinkStepSize,  
 TDD-PhysicalChannelOffset,  
TDD-UL-Code-LCR-Information,  
 TFCI2-BearerInformationResponse,  
 TFCI-Coding,  
 TFCI-Presence,  
 TFCI-SignallingMode,  
 TFCS,  
 TimeSlot,  
TimeSlotLCR,  
 TimeSlotDirection,  
 TimeSlotStatus,  
 TimingAdvanceApplied,  
 ToAWE,  
 ToAWS,  
 TransmissionDiversityApplied,  
 TransmitDiversityIndicator,

TransmissionGapPatternSequenceCodeInformation,  
 Transmission-Gap-Pattern-Sequence-Information,  
 TransportBearerRequestIndicator,  
 TransportFormatSet,  
 TransportLayerAddress,  
 TSTD-Indicator,  
 UARFCN,  
 USCH-Information,  
 USCH-InformationResponse,  
 UL-CapacityCredit,  
 UL-DPCCH-SlotFormat,  
 UL-SIR,  
 UL-FP-Mode,  
 UL-PhysCH-SF-Variation,  
 UL-ScramblingCode,  
 UL-Timeslot-Information,  
UL-TimeslotLCR-Information,  
 UL-TimeSlot-ISCP-Info,  
UL-TimeSlot-ISCP-LCR-Info,  
 UL-TimeslotISCP-Value,  
 UL-TimeslotISCP-Value-IncrDecrThres,  
 USCH-ID  
 FROM NBAP-IEs

PrivateIE-Container{ },  
 ProtocolExtensionContainer{ },  
 ProtocolIE-Container{ },  
 ProtocolIE-Single-Container{ },  
 ProtocolIE-ContainerList{ },  
 NBAP-PRIVATE-IES,  
 NBAP-PROTOCOL-IES,  
 NBAP-PROTOCOL-EXTENSION  
 FROM NBAP-Containers

id-Active-Pattern-Sequence-Information,  
 id-AdjustmentRatio,  
 id-AICH-Information,  
 id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
 id-AP-AICH-Information,  
 id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
 id-BCH-Information,  
 id-BCCH-ModificationTime,  
 id-BlockingPriorityIndicator,  
 id-Cause,  
 id-CauseLevel-PSCH-ReconfFailureTDD,  
 id-CauseLevel-RL-AdditionFailureFDD,  
 id-CauseLevel-RL-AdditionFailureTDD,  
 id-CauseLevel-RL-ReconfFailure,  
 id-CauseLevel-RL-SetupFailureFDD,  
 id-CauseLevel-RL-SetupFailureTDD,  
 id-CCP-InformationItem-AuditRsp,  
 id-CCP-InformationList-AuditRsp,

id-CCP-InformationItem-ResourceStatusInd,  
id-CDCA-ICH-Information,  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellParameterID,  
id-CFN,  
id-CFNReportingIndicator,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD,  
id-CommunicationContextInfoItem-Reset,  
id-CommunicationControlPortID,  
id-CommunicationControlPortInfoItem-Reset,  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
id-ConfigurationGenerationID,  
id-CPCH-Information,  
id-CPCH-Parameters-CTCH-SetupRsp,  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCHs-to-Add-FDD,  
id-DCHs-to-Add-TDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-FDD-Information,  
id-DCH-TDD-Information,  
id-DCH-InformationResponse,  
id-FDD-DCHs-to-Modify,  
id-TDD-DCHs-to-Modify,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,

id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCHs-to-Add-FDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-ID,  
id-DSCHs-to-Add-TDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-InformationResponse,  
id-DSCH-FDD-Information,  
id-DSCH-TDD-Information,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-End-Of-Audit-Sequence-Indicator,  
id-FACH-Information,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-InnerLoopDLPCStatus,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-Group-InformationItem-AuditRsp,  
id-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Local-Cell-Group-InformationList-AuditRsp,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,

id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-Information,  
id-P-CPICH-Information,  
id-P-SCH-Information,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-Information,  
id-PCPCH-Information,  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-Information,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PICH-ParametersItem-CTCH-SetupRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-Information,  
id-PRACHConstant,  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-Information,



id-RACHItem-CTCH-SetupRsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-ResetIndicator,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-PreemptRequiredInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-PreemptRequiredInd,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-S-CCPCH-Information,  
id-S-CPICH-Information,  
id-SCH-Information,  
id-S-SCH-Information,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,

id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-SFN,  
id-SFNReportingIndicator,  
id-ShutdownTimer,  
id-Start-Of-Audit-Sequence-Indicator,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse,  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-TimeslotISCPInfoList-DL-PC-RqstTDD,  
id-TimingAdvanceApplied,  
id-TransmissionDiversityApplied,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,

id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
 id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
 id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
 id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
 id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
 id-USCH-Information-Add,  
 id-USCH-Information-AddList-RL-ReconfRqstTDD,  
 id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
 id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
 id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
 id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
 id-USCH-InformationResponse,  
 id-USCH-Information,  
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,  
id-DL-DPCH-LCR-InformationList-RL-SetupRqstTDD,  
id-DwPCH-LCR-Information,  
id-DwPCH-LCR-Information-AuditRsp,  
id-DwPCH-LCR-InformationList-AuditRsp,  
id-DwPCH-LCR-Information-Cell-SetupRqstTDD,  
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,  
id-DwPCH-LCR-InformationList-ResourceStatusInd,  
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,  
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,  
id-FPACH-LCR-Information,  
id-FPACH-LCR-Information-AuditRsp,  
id-FPACH-LCR-InformationList-AuditRsp,  
id-FPACH-LCR-InformationList-ResourceStatusInd,  
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,  
id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD,  
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,  
id-PCPCH-LCR-Information-Cell-SetupRqstTDD,  
id-PCH-Power-LCR-CTCH-SetupRqstTDD,  
id-PCH-Power-LCR-CTCH-ReconfRqstTDD,  
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,  
id-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD,  
id-PRACH-LCR-ParameterList-CTCH-SetupRqstTDD,  
id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD,  
id-RL-InformationResponse-LCR-RL-SetupRspTDD,  
id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,  
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,  
id-TimeSlotISCP-LCR-InfoList-RL-SetupRqstTDD,  
id-TimeSlotLCR-CM-Rqst,  
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,  
id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD,

maxNrOfCCTrCHs,  
 maxNrOfCodes,  
 maxNrOfCPCHs,

```

maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSs,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfSCCPCHLCRs,
maxNrOfULTSs,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxFPACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxIB,
maxIBSEG
FROM NBAP-Constants;
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Partly omitted
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-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
--
-- *****

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

```

```

}

CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID          CRITICALITY reject      TYPE C-ID          PRESENCE
    mandatory  }|
  { ID id-ConfigurationGenerationID  CRITICALITY reject      TYPE ConfigurationGenerationID          PRESENCE
    mandatory  }|
  { ID id-CommonPhysicalChannelType-CTCH-SetupRqstTDD  CRITICALITY ignore      TYPE CommonPhysicalChannelType-CTCH-SetupRqstTDD
    PRESENCE mandatory  },
  ...
}

CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
  secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstTDD,
  pRACH-parameters                PRACH-CTCH-SetupRqstTDD,
  ...
}

Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE {
  cTrCH-ID          CTrCH-ID,
  tFCS              TFCS,
  tFCI-Coding       TFCI-Coding,
  punctureLimit     PunctureLimit,
  secondaryCCPCH-parameterList  Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
  fACH-ParametersList  FACH-ParametersList-CTCH-SetupRqstTDD      OPTIONAL,
  pCH-Parameters      PCH-Parameters-CTCH-SetupRqstTDD          OPTIONAL,
  -- One of the channels FACH or PCH or both must be present
  iE-Extensions      ProtocolExtensionContainer  {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}  OPTIONAL,
  ...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD  CRITICALITY reject  EXTENSION  Secondary-CCPCH-LCR-parameterList-CTCH-
  SetupRqstTDD  PRESENCE  optional  },
  ...
}

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  PRESENCE
  mandatory  }
}

Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,

```

```

timeslot
midambleShiftandBurstType
tdd-PhysicalChannelOffset
repetitionPeriod
repetitionLength
s-CCPCH-Power
iE-Extensions
...
}

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}

FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstTDD PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD

FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
cCTrCH-ID CCTrCH-ID,
dl-TransportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
iE-Extensions ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional },
...
}

PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}

PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
commonTransportChannelID CommonTransportChannelID,
cCTrCH-ID CCTrCH-ID,
dl-TransportFormatSet TransportFormatSet,
toAWS ToAWS,
toAWE ToAWE,
pICH-Parameters PICH-Parameters-CTCH-SetupRqstTDD,
iE-Extensions ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

```

```

PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PCH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional },
  { ID id-PICH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PICH-LCR-Parameters-CTCH-SetupRqstTDD
  PRESENCE optional }
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}

PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional }
}

PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  pagingIndicatorLength PagingIndicatorLength,
  pICH-Power PICH-Power,
  iE-Extensions ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-LCR-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-LCR-ParametersIE-CTCH-SetupRqstTDD }}

PICH-LCR-ParametersIE-CTCH-LCR-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PICH-LCR-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

PICH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  pagingIndicatorLength PagingIndicatorLength,
  pICH-Power PICH-Power,
  iE-Extensions ProtocolExtensionContainer { { PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

PICH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Secondary-CCPCH-LCR-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-LCR-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD    CRITICALITY reject    TYPE Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD
      PRESENCE optional }
}

Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    timeslotLCR                      TimeSlotLCR,
    midambleShiftLCR                MidambleShiftLCR,
    tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
    repetitionPeriod                 RepetitionPeriod,
    repetitionLength                 RepetitionLength,
    iE-Extensions                    ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
    pRACH-Parameters-CTCH-SetupRqstTDD          PRACH-Parameters-CTCH-SetupRqstTDD,
    iE-Extensions                               ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}

PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD    CRITICALITY reject    EXTENSION PRACH-LCR-ParametersList-CTCH-SetupRqstTDD
      PRESENCE optional },
    { ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD        CRITICALITY reject    EXTENSION FPACH-LCR-Parameters-CTCH-SetupRqstTDD
      PRESENCE optional },
    ...
}

PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRqstTDD }}

PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD    CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,

```



```

tFCS                                TFCS,
timeslot                            TimeSlot,
tdd-ChannelisationCode              TDD-ChannelisationCode,
maxPRACH-MidambleShifts             MaxPRACH-MidambleShifts,
pRACH-Midamble                      PRACH-Midamble,
rACH                                RACH-Parameter-CTCH-SetupRqstTDD,
iE-Extensions                       ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}

RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
commonTransportChannelID            CommonTransportChannelID,
uL-TransportFormatSet              TransportFormatSet,
iE-Extensions                      ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-LCR-ParametersListIEs-CTCH-SetupRqstTDD }}

PRACH-LCR-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD PRESENCE optional }
}

PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNoOfPRACHLCRs2)) OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
commonPhysicalChannelID            CommonPhysicalChannelID,
tFCS                                TFCS,
timeslotLCR                        TimeSlotLCR,
tdd-ChannelisationCodeLCR          TDD-ChannelisationCodeLCR,
maxPRACH-MidambleShifts           MaxPRACH-MidambleShifts,
pRACH-Midamble                     PRACH-Midamble,
rACH                                RACH-Parameter-CTCH-SetupRqstTDD,
iE-Extensions                      ProtocolExtensionContainer { { PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...
}

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
  ]

FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FPACH-LCR-ParametersIE-CTCH-SetupRqstTDD }}

FPACH-LCR-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional }
}

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  timeslotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  MaxfPACH-Power MaxFPACH-Power,
  iE-Extensions ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

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**Partly omitted**

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-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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```

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

CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE
  mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE
  mandatory }|

```

```

    { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject   TYPE          Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD
    PRESENCE optional }|
    { ID id-PICH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject   TYPE          PICH-Parameters-CTCH-ReconfRqstTDD          PRESENCE optional }|
    { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD      CRITICALITY reject   TYPE          FACH-ParametersList-CTCH-ReconfRqstTDD      PRESENCE optional }|
    { ID id-PCH-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject   TYPE          PCH-Parameters-CTCH-ReconfRqstTDD          PRESENCE optional },
    ...
}

CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD          CRITICALITY reject   EXTENSION     FPACH-LCR-Parameters-CTCH-ReconfRqstTDD          PRESENCE
    optional },
    ...
}

Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    secondaryCCPCHList        Secondary-CCPCHList-CTCH-ReconfRqstTDD          OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCHList-CTCH-ReconfRqstTDD ::= ProtocolIE-Single-Container { { Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD } }

Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD          CRITICALITY reject   TYPE          Secondary-CCPCHListIE-CTCH-ReconfRqstTDD          PRESENCE mandatory }
}

Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD

Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID   CommonPhysicalChannelID,
    sCCPCH-Power              DL-Power          OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID   CommonPhysicalChannelID,
    pICH-Power                PICH-Power          OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRqstTDD

FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS              OPTIONAL,
    toAWE                          ToAWE              OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD      CRITICALITY reject      EXTENSION      DL-Power      PRESENCE      optional },
    ...
}

PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    toAWS                          ToAWS              OPTIONAL,
    toAWE                          ToAWE              OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-PCH-Power-LCR-CTCH-ReconfRqstTDD      CRITICALITY reject      EXTENSION      DL-Power      PRESENCE      optional },
    ...
}

FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
    CommonPhysicalChannelId      CommonPhysicalChannelID,
    maxFPACHPower                MaxFPACH-Power      OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { FPACH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

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**Partly omitted**  
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 .

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-- *****
--
-- AUDIT RESPONSE
--
-- *****

```

```

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-End-Of-Audit-Sequence-Indicator      CRITICALITY  ignore  TYPE      End-Of-Audit-Sequence-Indicator      PRESENCE  mandatory } |
    { ID      id-Cell-InformationList-AuditRsp        CRITICALITY  ignore  TYPE      Cell-InformationList-AuditRsp        PRESENCE
    optional  } |
    { ID      id-CCP-InformationList-AuditRsp         CRITICALITY  ignore  TYPE      CCP-InformationList-AuditRsp         PRESENCE  optional
    } |
    -- CCP (Communication Control Port) --
    { ID      id-Local-Cell-InformationList-AuditRsp   CRITICALITY  ignore  TYPE      Local-Cell-InformationList-AuditRsp   PRESENCE
    optional  } |
    { ID      id-Local-Cell-Group-InformationList-AuditRsp CRITICALITY  ignore  TYPE      Local-Cell-Group-InformationList-AuditRsp PRESENCE
    optional  } |
    { ID      id-CriticalityDiagnostics                CRITICALITY  ignore  TYPE      CriticalityDiagnostics                PRESENCE  optional
    },
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID      id-Cell-InformationItem-AuditRsp        CRITICALITY  ignore  TYPE      Cell-InformationItem-AuditRsp        PRESENCE  optional }
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID,
    configurationGenerationID      ConfigurationGenerationID,
    resourceOperationalState        ResourceOperationalState,
    availabilityStatus              AvailabilityStatus,
    local-Cell-ID                   Local-Cell-ID,
    primary-SCH-Information          P-SCH-Information-AuditRsp          OPTIONAL,
    secondary-SCH-Information        S-SCH-Information-AuditRsp          OPTIONAL,
    primary-CPICH-Information        P-CPICH-Information-AuditRsp        OPTIONAL,
    secondary-CPICH-InformationList  S-CPICH-InformationList-AuditRsp    OPTIONAL,
    primary-CCPCH-Information        P-CCPCH-Information-AuditRsp        OPTIONAL,
    bCH-Information                  BCH-Information-AuditRsp            OPTIONAL,
    secondary-CCPCH-InformationList  S-CCPCH-InformationList-AuditRsp    OPTIONAL,
    pCH-Information                  PCH-Information-AuditRsp            OPTIONAL,
    pICH-Information                  PICH-Information-AuditRsp            OPTIONAL,
    fACH-InformationList              FACH-InformationList-AuditRsp        OPTIONAL,
    pRACH-InformationList              PRACH-InformationList-AuditRsp        OPTIONAL,
    rACH-InformationList              RACH-InformationList-AuditRsp        OPTIONAL,
    aICH-InformationList              AICH-InformationList-AuditRsp        OPTIONAL,
    pCPCH-InformationList              PCPCH-InformationList-AuditRsp        OPTIONAL,
}

```

```

cPCH-InformationList          CPOCH-InformationList-AuditRsp          OPTIONAL,
aP-AICH-InformationList       AP-AICH-InformationList-AuditRsp          OPTIONAL,
cDCA-ICH-InformationList      CDCA-ICH-InformationList-AuditRsp       OPTIONAL,
sCH-Information               SCH-Information-AuditRsp               OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
...
}

Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-InformationList-AuditRsp    CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditRsp    PRESENCE optional },
  { ID id-DwPCH-LCR-InformationList-AuditRsp    CRITICALITY ignore EXTENSION DwPCH-LCR-InformationList-AuditRsp    PRESENCE optional },
  ...
}

P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information    CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information    CRITICALITY ignore TYPE Common-TransportChannel-Status-Information    PRESENCE mandatory }
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-S-CCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
  }
PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE optional }
}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-AuditRsp }}

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE optional }
}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {

```

```

    { ID id-AP-AICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
  }

CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE    CCP-InformationItem-AuditRsp    PRESENCE mandatory }
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
  communicationControlPortID    CommunicationControlPortID,
  resourceOperationalState    ResourceOperationalState,
  availabilityStatus    AvailabilityStatus,
  iE-Extensions    ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}    OPTIONAL,
  ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}

FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information-AuditRsp    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

DwPCH-LCR-InformationList-AuditRsp ::= ProtocolIE-Single-Container {{ DWPCH-LCR-InformationIE-AuditRsp }}

DwPCH-LCR-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-DwPCH-LCR-Information-AuditRsp    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information    PRESENCE mandatory }
}

Local-Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem-AuditRsp    CRITICALITY    ignore    TYPE Local-Cell-InformationItem-AuditRsp    PRESENCE mandatory }
}

```



```

}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-ID                Local-Cell-ID,
    dl-or-global-capacityCredit   DL-or-Global-CapacityCredit,
    ul-capacityCredit             UL-CapacityCredit           OPTIONAL,
    commonChannelsCapacityConsumptionLaw
    CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
    DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability     MaximumDL-PowerCapability   OPTIONAL,
    minSpreadingFactor            MinSpreadingFactor         OPTIONAL,
    minimumDL-PowerCapability     MinimumDL-PowerCapability   OPTIONAL,
    local-Cell-Group-ID          Local-Cell-ID             OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
    ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-AuditRsp }}

Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID      id-Local-Cell-Group-InformationItem-AuditRsp          CRITICALITY    ignore          TYPE  Local-Cell-Group-InformationItem-AuditRsp
    PRESENCE  mandatory}
}

Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-Group-ID          Local-Cell-ID,
    dl-or-global-capacityCredit   DL-or-Global-CapacityCredit,
    ul-capacityCredit             UL-CapacityCredit           OPTIONAL,
    commonChannelsCapacityConsumptionLaw
    CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
    DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                 ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
    ...
}

Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- AUDIT FAILURE
--
-- *****

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

```

```

AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-Cause                CRITICALITY  ignore      TYPE  Cause                PRESENCE mandatory }|
  { ID      id-CriticalityDiagnostics CRITICALITY  ignore      TYPE  CriticalityDiagnostics  PRESENCE optional },
  ...
}

AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID                CRITICALITY reject      TYPE  MeasurementID                PRESENCE mandatory
  }|
  { ID      id-CommonMeasurementObjectType-CM-Rqst  CRITICALITY reject      TYPE  CommonMeasurementObjectType-CM-Rqst  PRESENCE
  mandatory }|
  -- This IE represents both the Common Measurement Object Type IE and the choice based on the Common Measurement Object Type
  -- as described in the tabular message format in subclause 9.1.
  { ID      id-CommonMeasurementType                CRITICALITY reject      TYPE  CommonMeasurementType                PRESENCE mandatory
  }|
  { ID      id-MeasurementFilterCoefficient          CRITICALITY reject      TYPE  MeasurementFilterCoefficient          PRESENCE
  optional }|
  { ID      id-ReportCharacteristics                CRITICALITY reject      TYPE  ReportCharacteristics                PRESENCE mandatory
  }|
  { ID      id-SFNReportingIndicator                CRITICALITY reject      TYPE  SFNReportingIndicator                PRESENCE mandatory
  }|
  { ID      id-SFN                                  CRITICALITY reject      TYPE  SFN                                  PRESENCE optional
  },
  ...
}

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
  cell                Cell-CM-Rqst,
  rACH                RACH-CM-Rqst,
  cPCH                CPCH-CM-Rqst,
  ...
}

```

```

Cell-CM-Rqst ::= SEQUENCE {
    c-ID                               C-ID,
    timeSlot                           TimeSlot OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { CellItem-CM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotLCR-CM-Rqst CRITICALITY reject EXTENSION TimeSlotLCR PRESENCE optional },
    ...
}

RACH-CM-Rqst ::= SEQUENCE {
    c-ID                               C-ID,
    commonTransportChannelID           CommonTransportChannelID,
    iE-Extensions                       ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-CM-Rqst ::= SEQUENCE {
    c-ID                               C-ID,
    commonTransportChannelID           CommonTransportChannelID,
    spreadingfactor                    MinUL-ChannelisationCodeLength OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { CPCHItem-CM-Rqst-ExtIEs } } OPTIONAL,
    ...
}

CPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

.
.
.
Partly omitted
.
.
.

-- *****
--
-- CELL SETUP REQUEST TDD
--
-- *****

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

```

```

    protocolExtensions      ProtocolExtensionContainer  {{CellSetupRequestTDD-Extensions}}      OPTIONAL,
    ...
}

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-Local-Cell-ID          CRITICALITY      reject      TYPE      Local-Cell-ID          PRESENCE
    mandatory  }|
    { ID      id-C-ID                  CRITICALITY      reject      TYPE      C-ID                      PRESENCE
    mandatory  }|
  { ID      id-ConfigurationGenerationID  CRITICALITY      reject      TYPE      ConfigurationGenerationID      PRESENCE
    mandatory  }|
  { ID      id-UARFCNforNt              CRITICALITY      reject      TYPE      UARFCN                          PRESENCE
    mandatory  }|
  { ID      id-CellParameterID          CRITICALITY      reject      TYPE      CellParameterID                 PRESENCE
    mandatory  }|
  { ID      id-MaximumTransmissionPower  CRITICALITY      reject      TYPE      MaximumTransmissionPower        PRESENCE
    mandatory  }|
  { ID      id-TransmissionDiversityApplied  CRITICALITY      reject      TYPE      TransmissionDiversityApplied      PRESENCE
    mandatory  }|
  { ID      id-SyncCase                  CRITICALITY      reject      TYPE      SyncCase                          PRESENCE
    mandatory  }|
  { ID      id-Synchronisation-Configuration-Cell-SetupRqst  CRITICALITY      reject      TYPE      Synchronisation-Configuration-Cell-SetupRqst
    PRESENCE  mandatory  }|
  { ID      id-DPCHConstant              CRITICALITY      reject      TYPE      ConstantValue                    PRESENCE
    mandatory  }|
  { ID      id-PUSCHConstant              CRITICALITY      reject      TYPE      ConstantValue                    PRESENCE
    mandatory  }|
  { ID      id-PRACHConstant              CRITICALITY      reject      TYPE      ConstantValue                    PRESENCE
    mandatory  }|
  { ID      id-TimingAdvanceApplied       CRITICALITY      reject      TYPE      TimingAdvanceApplied             PRESENCE
    mandatory  }|
  { ID      id-SCH-Information-Cell-SetupRqstTDD  CRITICALITY      reject      TYPE      SCH-Information-Cell-SetupRqstTDD
    PRESENCE  optionalmandatory  }|
  { ID      id-PCCPCH-Information-Cell-SetupRqstTDD  CRITICALITY      reject      TYPE      PCCPCH-Information-Cell-SetupRqstTDD
    PRESENCE  optionalmandatory  }|
  { ID      id-TimeSlotConfigurationList-Cell-SetupRqstTDD  CRITICALITY      reject      TYPE      TimeSlotConfigurationList-Cell-SetupRqstTDD
    PRESENCE  optionalmandatory  },
  ...
}

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID      id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD  CRITICALITY      reject      EXTENSION  TimeSlotConfigurationList-LCR-Cell-
  SetupRqstTDD          PRESENCE  optional  }|
  { ID      id-PCCPCH-LCR-Information-Cell-SetupRqstTDD  CRITICALITY      reject      EXTENSION  PCCPCH-LCR-Information-Cell-SetupRqstTDD
  PRESENCE  optional  }|
  { ID      id-DwPCH-LCR-Information-Cell-SetupRqstTDD  CRITICALITY      reject      EXTENSION  DwPCH-LCR-Information-Cell-SetupRqstTDD
  PRESENCE  optional  },
  ...
}

SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID      CommonPhysicalChannelID,

```

```

syncCaseIndicator          SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
sCH-Power                  DL-Power,
tSTD-Indicator             TSTD-Indicator,
iE-Extensions              ProtocolExtensionContainer { { SCH-Information-Cell-SetupRqstTDD-ExtIEs } }   OPTIONAL,
...
}

SCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-Single-Container { { SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH } }

SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IES ::= {
  { ID id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH   CRITICALITY reject   TYPE SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH   PRESENCE
mandatory }
}

SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE {
  case1                      Case1-Cell-SetupRqstTDD,
  case2                      Case2-Cell-SetupRqstTDD,
  ...
}

Case1-Cell-SetupRqstTDD ::= SEQUENCE {
  timeSlot                   TimeSlot,
  iE-Extensions              ProtocolExtensionContainer { { Case1Item-Cell-SetupRqstTDD-ExtIEs } }   OPTIONAL,
  ...
}

Case1Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Case2-Cell-SetupRqstTDD ::= SEQUENCE {
  sCH-TimeSlot               SCH-TimeSlot,
  iE-Extensions              ProtocolExtensionContainer { { Case2Item-Cell-SetupRqstTDD-ExtIEs } }   OPTIONAL,
  ...
}

Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID    CommonPhysicalChannelID,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  repetitionPeriod           RepetitionPeriod,
  repetitionLength           RepetitionLength,
  pCCPCH-Power              PCCPCH-Power,
  blockSTTD-Indicator        BlockSTTD-Indicator,
  iE-Extensions              ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs } }   OPTIONAL,

```

```

}
...
}
PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-SetupRqstTDD
TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
timeSlot TimeSlot,
timeSlotStatus TimeSlotStatus,
timeSlotDirection TimeSlotDirection,
iE-Extensions ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
timeSlotLCR TimeSlotLCR,
timeSlotStatus TimeSlotStatus,
timeSlotDirection TimeSlotDirection,
iE-Extensions ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PCCPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
timeSlotLCR TimeSlotLCR,
tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
pCCPCH-Power PCCPCH-Power,
blockSTD-Indicator BlockSTD-Indicator,
tSTD-Indicator TSTD-Indicator,
iE-Extensions ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DWPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {

```

```

commonPhysicalChannelId      CommonPhysicalChannelId,
tSTD-Indicator               TSTD-Indicator,
sYNCD1CodeId                 SYNCD1CodeId,
dwPCH-Power                  DwPCH-Power,
iE-Extensions                ProtocolExtensionContainer { { DwPCH-Information-Cell-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

.  
 .  
 .  
**Partly omitted**  
 .  
 .  
 .

```

-- *****
--
-- CELL RECONFIGURATION REQUEST TDD
--
-- *****

```

```

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

```

```

CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID          CRITICALITY reject TYPE C-ID          PRESENCE
    mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE
    mandatory }|
  { ID id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE optional }|
  { ID id-TimingAdvanceApplied CRITICALITY reject TYPE TimingAdvanceApplied PRESENCE
    optional }|
  { ID id-SCH-Information-Cell-ReconfRqstTDD CRITICALITY reject TYPE SCH-Information-Cell-ReconfRqstTDD
    PRESENCE optional }|
  { ID id-PCCPCH-Information-Cell-ReconfRqstTDD CRITICALITY reject TYPE PCCPCH-Information-Cell-ReconfRqstTDD
    PRESENCE optional }|
  { ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower PRESENCE
    optional }|
  { ID id-DPCHConstant CRITICALITY reject TYPE ConstantValue PRESENCE
    optional }|
}

```

```

{ ID id-PUSCHConstant
  optional }|
  CRITICALITY reject TYPE ConstantValue PRESENCE
{ ID id-PRACHConstant
  optional }|
  CRITICALITY reject TYPE ConstantValue PRESENCE
{ ID id-TimeSlotConfigurationList-Cell-ReconfRqstTDD
  PRESENCE optionalmandatory },
  CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-ReconfRqstTDD
  ...
}

CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-
ReconfRqstTDD PRESENCE optional},
  { ID id-DwPCH-LCR-Information-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD PRESENCE
optional},
  ...
}

SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  sCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { PSCH-Information-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PSCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  pCCPCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  timeSlotStatus TimeSlotStatus,
  timeSlotDirection TimeSlotDirection,
  iE-Extensions ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



```

TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    timeSlotStatus              TimeSlotStatus,
    timeSlotDirection           TimeSlotDirection,
    iE-Extensions               ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DwPCH-LCR-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId     CommonPhysicalChannelId,
    dwPCH-Power                 DwPCH-Power,
    iE-Extensions               ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- CELL RECONFIGURATION RESPONSE
--
-- *****

```

```

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

```

```

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

```

```

CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

.
.
.
Partly omitted
.

```

```

:
.
-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-IndicationType-ResourceStatusInd      CRITICALITY   ignore          TYPE   IndicationType-ResourceStatusInd      PRESENCE
      mandatory }|
    { ID      id-Cause                                CRITICALITY   ignore          TYPE   Cause                                     PRESENCE   optional
    },
    ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure          No-Failure-ResourceStatusInd,
    serviceImpacting   ServiceImpacting-ResourceStatusInd,
    ...
}

No-Failure-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList      Local-Cell-InformationList-ResourceStatusInd,
    local-Cell-Group-InformationList Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem-ResourceStatusInd PRESENCE
      mandatory }
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {

```

```

local-CellID                Local-Cell-ID,
addorDeleteIndicator        AddorDeleteIndicator,
dl-or-global-capacityCredit DL-or-Global-CapacityCredit    OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
ul-capacityCredit          UL-CapacityCredit        OPTIONAL,
commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw    OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw    OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
maximumDL-PowerCapability  MaximumDL-PowerCapability    OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
minSpreadingFactor        MinSpreadingFactor          OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
minimumDL-PowerCapability  MinimumDL-PowerCapability    OPTIONAL,
-- This IE is present only if "AddorDeleteIndicator" equals add
local-Cell-Group-ID       Local-Cell-ID              OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } }OPTIONAL,
...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-Group-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd
PRESENCE mandatory }
}

Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
local-Cell-Group-ID                Local-Cell-ID,
dl-or-global-capacityCredit        DL-or-Global-CapacityCredit,
ul-capacityCredit                  UL-CapacityCredit        OPTIONAL,
commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
iE-Extensions                     ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }OPTIONAL,
...
}

Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
local-Cell-InformationList         Local-Cell-InformationList2-ResourceStatusInd    OPTIONAL,
local-Cell-Group-InformationList   Local-Cell-Group-InformationList2-ResourceStatusInd    OPTIONAL,
cCP-InformationList               CCP-InformationList-ResourceStatusInd            OPTIONAL,
cell-InformationList              Cell-InformationList-ResourceStatusInd            OPTIONAL,
iE-Extensions                     ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
...
}

```

```

}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem2-ResourceStatusInd    PRESENCE
mandatory }
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-ID                Local-Cell-ID,
    dl-or-global-capacityCredit   DL-or-Global-CapacityCredit    OPTIONAL,
    ul-capacityCredit             UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw    CommonChannelsCapacityConsumptionLaw    OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw  OPTIONAL,
    maximum-DL-PowerCapability    MaximumDL-PowerCapability    OPTIONAL,
    minSpreadingFactor            MinSpreadingFactor          OPTIONAL,
    minimumDL-PowerCapability     MinimumDL-PowerCapability    OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE2-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd
PRESENCE mandatory }
}

Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-Group-ID          Local-Cell-ID,
    dl-or-global-capacityCredit   DL-or-Global-CapacityCredit    OPTIONAL,
    ul-capacityCredit             UL-CapacityCredit          OPTIONAL,
    commonChannelsCapacityConsumptionLaw    CommonChannelsCapacityConsumptionLaw    OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw  OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { { Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE CCP-InformationItem-ResourceStatusInd  PRESENCE mandatory }
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
  communicationControlPortID      CommunicationControlPortID,
  resourceOperationalState        ResourceOperationalState,
  availabilityStatus              AvailabilityStatus,
  iE-Extensions                   ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs } }      OPTIONAL,
  ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Cell-InformationItem-ResourceStatusInd  CRITICALITY ignore  TYPE Cell-InformationItem-ResourceStatusInd  PRESENCE mandatory }
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  c-ID                            C-ID,
  resourceOperationalState        ResourceOperationalState          OPTIONAL,
  availabilityStatus              AvailabilityStatus                OPTIONAL,
  primary-SCH-Information         P-SCH-Information-ResourceStatusInd  OPTIONAL,
  secondary-SCH-Information       S-SCH-Information-ResourceStatusInd  OPTIONAL,
  primary-CPICH-Information       P-CPICH-Information-ResourceStatusInd  OPTIONAL,
  secondary-CPICH-Information     S-CPICH-InformationList-ResourceStatusInd  OPTIONAL,
  primary-CCPCH-Information       P-CCPCH-Information-ResourceStatusInd  OPTIONAL,
  bCH-Information                BCH-Information-ResourceStatusInd      OPTIONAL,
  secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd  OPTIONAL,
  pCH-Information                PCH-Information-ResourceStatusInd      OPTIONAL,
  pICH-Information                PICH-Information-ResourceStatusInd     OPTIONAL,
  fACH-InformationList            FACH-InformationList-ResourceStatusInd  OPTIONAL,
  pRACH-InformationList           PRACH-InformationList-ResourceStatusInd  OPTIONAL,
  rACH-InformationList            RACH-InformationList-ResourceStatusInd  OPTIONAL,
  aICH-InformationList            AICH-InformationList-ResourceStatusInd  OPTIONAL,
  pCPCH-InformationList           PCPCH-InformationList-ResourceStatusInd  OPTIONAL,
  cPCH-InformationList            CPCH-InformationList-ResourceStatusInd  OPTIONAL,
  aP-AICH-InformationList         AP-AICH-InformationList-ResourceStatusInd  OPTIONAL,
  cDCA-ICH-InformationList        CDCA-ICH-InformationList-ResourceStatusInd  OPTIONAL,
  SCH-Information                SCH-Information-ResourceStatusInd      OPTIONAL,
  iE-Extensions                   ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } }  OPTIONAL,
  ...
}

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

{ ID id-FPACH-LCR-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-ResourceStatusInd
  PRESENCE optional },
{ ID id-DwPCH-LCR-Information-ResourceStatusInd CRITICALITY ignore EXTENSION DwPCH-LCR-Information-ResourceStatusInd PRESENCE optional
},
...
}

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-
ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
ResourceStatusInd }}

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}

```

```

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE mandatory }
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory }
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE optional }
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information  PRESENCE optional }
}

```

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd }}

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }  
 }

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd }}

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }  
 }

SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
 }

FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (0..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }}

FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
 }

DWPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DWPCH-LCR-InformationIE-ResourceStatusInd }}

DWPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
 { ID id-DWPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
 }

- 
- 
- 
- 
- 

Partly omitted

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

RadioLinkSetupRequestTDD ::= SEQUENCE {



```

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

RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID    id-CRNC-CommunicationContextID          CRITICALITY reject          TYPE CRNC-CommunicationContextID
  PRESENCE mandatory }|
  { ID    id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID    id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD
  PRESENCE optional }|
  { ID    id-DCH-TDD-Information                  CRITICALITY reject          TYPE DCH-TDD-Information      PRESENCE optional }|
  { ID    id-DSCH-TDD-Information                  CRITICALITY reject          TYPE DSCH-TDD-Information     PRESENCE optional }|
  { ID    id-USCH-Information                      CRITICALITY reject          TYPE USCH-Information        PRESENCE optional }|
  { ID    id-RL-Information-RL-SetupRqstTDD        CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD
  PRESENCE mandatory },
  ...
}

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

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
  ProtocolIE-Single-Container{{ UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-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,
  tFCS               TFCS,
  tFCI-Coding        TFCI-Coding,
  punctureLimit      PunctureLimit,
  uL-DPCH-Information UL-DPCH-Information-RL-SetupRqstTDD OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify EXTENSION UL-DPCH-LCR-Information-RL-SetupRqstTDD PRESENCE optional
  },
  ...
}

UL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container{{ UL-DPCH-InformationIE-RL-SetupRqstTDD }}

UL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory }
}

```

```

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

```

```

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container{{ UL-DPCH-LCR-InformationIE-RL-SetupRqstTDD }}

```

```

UL-DPCH-LCR-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD PRESENCE
optional }
}

```

```

UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset            TDD-DPCHOffset,
    uL-TimeslotLCR-Information UL-TimeslotLCR-Information,
    iE-Extensions              ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

```

```

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-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,
    tFCS                        TFCS,
    tFCI-Coding                 TFCI-Coding,
    punctureLimit               PunctureLimit,
    tdd-TPC-DownlinkStepSize    TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList              CCTrCH-TPCList-RL-SetupRqstTDD OPTIONAL,
    dL-DPCH-Information          DL-DPCH-Information-RL-SetupRqstTDD OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify EXTENSION DL-DPCH-LCR-Information-RL-SetupRqstTDD PRESENCE optional
  },
  ...
}

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

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

CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container{{ DL-DPCH-InformationIE-RL-SetupRqstTDD }}

DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory }
}

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dL-Timeslot-Information DL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container{{ DL-DPCH-LCR-InformationIE-RL-SetupRqstTDD }}

DL-DPCH-LCR-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-LCR-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD PRESENCE
  mandatory }
}

DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  DL-TimeslotLCR-Information DL-TimeslotLCR-Information,
  tstdIndicator TSTD-Indicator
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
}

```

...  
 ]

DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
 ]

```
RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
  rL-ID                RL-ID,
  c-ID                 C-ID,
  frameOffset         FrameOffset,
  initialDL-transmissionPower  DL-Power,
  maximumDL-power     DL-Power,
  minimumDL-power     DL-Power,
  timeslotISCPInfoList TimeslotISCPInfoList-RL-SetupRqstTDD OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}
```

TimeslotISCPInfoList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF TimeslotISCPInfoItem-RL-SetupRqstTDD

```
TimeslotISCPInfoItem-RL-SetupRqstTDD ::= SEQUENCE {
  timeSlot            TimeSlot,
  dL-TimeslotISCP     DL-TimeslotISCP,
  iE-Extensions       ProtocolExtensionContainer { {TimeslotISCPInfoItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
```

TimeslotISCPInfoItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
 }

RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  { ID id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD CRITICALITY reject TYPE TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD PRESENCE  
  optional },  
 ...  
 }

TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD

TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD ::= SEQUENCE {  
  timeSlotLCR TimeSlotLCR,  
  dL-TimeslotISCP DL-TimeslotISCP,  
  iE-Extensions ProtocolExtensionContainer { {TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,  
  ...  
  }

TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
 ]

```

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.
Partly omitted
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.

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

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

RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID    id-CRNC-CommunicationContextID          CRITICALITY    ignore          TYPE CRNC-CommunicationContextID
    PRESENCE    mandatory    }|
    { ID    id-NodeB-CommunicationContextID        CRITICALITY    ignore          TYPE NodeB-CommunicationContextID
    PRESENCE    mandatory    }|
    { ID    id-CommunicationControlPortID         CRITICALITY    ignore          TYPE    CommunicationControlPortID
    PRESENCE    mandatory    }|
    { ID    id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY    ignore          TYPE RL-InformationResponse-RL-SetupRspTDD
    PRESENCE    optionalmandatory    }|
    { ID    id-CriticalityDiagnostics             CRITICALITY    ignore          TYPE CriticalityDiagnostics
    PRESENCE    optional    },
    ...
}

RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID    id-RL-InformationResponse-LCR-RL-SetupRspTDD          CRITICALITY    ignore          EXTENSION    RL-InformationResponse-LCR-RL-SetupRspTDD
PRESENCE    optional    },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    uL-TimeSlot-ISCP-Info    UL-TimeSlot-ISCP-Info,
    uL-PhysCH-SF-Variation    UL-PhysCH-SF-Variation,
    dCH-InformationResponseList    DCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    dSCH-InformationResponseList    DSCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    uSCH-InformationResponseList    USCH-InformationResponseList-RL-SetupRspTDD    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } }    OPTIONAL,
    ...
}

```

```

RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
}

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

DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse PRESENCE mandatory }
}

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

USCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse PRESENCE mandatory }
}

RL-InformationResponse-LCR-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID RL-ID,
    uL-TimeSlot-ISCP-LCR-Info UL-TimeSlot-ISCP-LCR-Info,
    uL-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
    dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    uSCH-InformationResponseList USCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs } }
    OPTIONAL,
    ...
}

RL-InformationResponseList-LCR-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

•  
•  
•

Partly omitted

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•  
•

## 9.3.4 Information Elements Definitions

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.
Partly omitted
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-- =====
-- D
-- =====

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

DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator    PayloadCRC-PresenceIndicator,
    ul-FP-Mode                       UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList      DCH-Specific-FDD-InformationList,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
    ...
}

DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

DCH-Specific-FDD-Item ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority             FrameHandlingPriority,
    qE-Selector                       QE-Selector,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs} } OPTIONAL,
    ...
}

DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

DCH-InformationResponseItem ::= SEQUENCE {
    dCH-ID                            DCH-ID,

```

```

bindingID                               BindingID                               OPTIONAL,
transportLayerAddress                   TransportLayerAddress                   OPTIONAL,
iE-Extensions                           ProtocolExtensionContainer { { DCH-InformationResponseItem-ExtIEs} }   OPTIONAL,
...
}

DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

DCH-TDD-InformationItem ::= SEQUENCE {
payloadCRC-PresenceIndicator           PayloadCRC-PresenceIndicator,
ul-FP-Mode                             UL-FP-Mode,
toAWS                                  ToAWS,
toAWE                                  ToAWE,
dCH-SpecificInformationList           DCH-Specific-TDD-InformationList,
iE-Extensions                          ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs} }   OPTIONAL,
...
}

DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

DCH-Specific-TDD-Item ::= SEQUENCE {
dCH-ID                                 DCH-ID,
ul-CCTrCH-ID                          CCTrCH-ID,
dl-CCTrCH-ID                          CCTrCH-ID,
ul-TransportFormatSet                 TransportFormatSet,
dl-TransportFormatSet                 TransportFormatSet,
allocationRetentionPriority            AllocationRetentionPriority,
frameHandlingPriority                  FrameHandlingPriority                OPTIONAL,
qE-Selector                           QE-Selector                          OPTIONAL,
-- This IE is present only if DCH is part of set of Coordinated DCHs
iE-Extensions                          ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs} }   OPTIONAL,
...
}

DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem

FDD-DCHs-to-ModifyItem ::= SEQUENCE {
ul-FP-Mode                             UL-FP-Mode                OPTIONAL,
toAWS                                  ToAWS                     OPTIONAL,
toAWE                                  ToAWE                     OPTIONAL,
transportBearerRequestIndicator         TransportBearerRequestIndicator,

```



```

    dCH-SpecificInformationList      DCH-ModifySpecificInformation-TDD,
    iE-Extensions                    ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-ExtIEs} }  OPTIONAL,
    ...
}

FDD-DCHs-to-ModifyItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformation-FDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD

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

DCH-ModifySpecificItem-FDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD

DCH-ModifyItem-TDD ::= SEQUENCE {
    ul-FP-Mode                      UL-FP-Mode          OPTIONAL,
    toAWS                            ToAWS              OPTIONAL,
    toAWE                             ToAWE              OPTIONAL,
    transportBearerRequestIndicator    TransportBearerRequestIndicator,
    dCH-SpecificInformationList        DCH-ModifySpecificInformation-TDD,
    iE-Extensions                    ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs} }  OPTIONAL,
    ...
}

TDD-DCHs-to-ModifyItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD

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

```

```

}
...
}
DCH-ModifySpecificItem-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
SEQUENCE {
dl-Cost-RLS      INTEGER (0..65535),
dl-Cost-RL       INTEGER (0..65535),
ul-Cost-RLS      INTEGER (0..65535),
ul-Cost-RL       INTEGER (0..65535),
iE-Extensions    ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs } } OPTIONAL,
...
}
DedicatedChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DedicatedMeasurementType ::= ENUMERATED {
sir,
sir-error,
transmitted-code-power,
rscp,
rx-timing-deviation,
round-trip-time,
...
}
DedicatedMeasurementValue ::= CHOICE {
sIR-Value          SIR-Value,
sIR-ErrorValue     SIR-Error-Value,
transmittedCodePowerValue Transmitted-Code-Power-Value,
rSCP               RSCP-Value,
rxTimingDeviationValue Rx-Timing-Deviation-Value,
roundTripTime      Round-Trip-Time-Value,
...
}
DedicatedMeasurementValueInformation ::= CHOICE {
measurementAvailable      DedicatedMeasurementAvailable,
measurementnotAvailable   DedicatedMeasurementnotAvailable
}
DedicatedMeasurementAvailable ::= SEQUENCE {
dedicatedmeasurementValue DedicatedMeasurementValue,
cFN                        CFN OPTIONAL,
ie-Extensions              ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs } } OPTIONAL,

```

```

    ...
}

DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DedicatedMeasurementnotAvailable ::= NULL

Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)

DeltaSIR ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not,
    ...
}

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-mode1,
    closed-loop-mode2,
    ...
}

DL-DPCH-SlotFormat ::= INTEGER (0..16,...)

DL-Timeslot-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationItem

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

DL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-InformationItem

DL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,

```

```

midambleShiftLCR                MidambleShiftLCR,
tFCI-Presence                    TFCI-Presence,
dL-Code-LCR-Information          TDD-DL-Code-LCR-Information,
iE-Extensions                    ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs } } OPTIONAL,
...
}

DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-or-Global-CapacityCredit ::= INTEGER (0..65535)

DL-Power ::= INTEGER (-350..150)
-- DL-Power = power * 10
-- If Power <=-35 DL-Power shall be set to -350
-- if Power >=15 DL-Power shall be set to 150
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TimeslotISCPInfo ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem

DL-TimeslotISCPInfoItem ::= SEQUENCE {
    timeSlot                TimeSlot,
    dL-TimeslotISCP          DL-TimeslotISCP,
    iE-Extensions            ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} } OPTIONAL,
    ...
}

DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,

```

```

}
...
}
DPCH-ID ::= INTEGER (0..239)
DSCH-ID ::= INTEGER (0..255)
DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem
DSCH-InformationResponseItem ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    bindingID              BindingID                OPTIONAL,
    transportLayerAddress  TransportLayerAddress   OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationResponseItem-ExtIEs } } OPTIONAL,
    ...
}
DSCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-FDD-InformationItem
DSCH-FDD-InformationItem ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-FDD-InformationItem-ExtIEs } } OPTIONAL,
    ...
}
DSCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem
DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID             CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    ...
}
DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

DwPCH-Power ::= ENUMERATED {
    -10, -9, -8, , -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ...}

-- =====
-- E
-- =====

End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
    end-of-audit-sequence,
    not-end-of-audit-sequence
}

-- =====
-- F
-- =====

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511)
-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--

FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF FDD-DL-CodeInformationItem

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

FDD-DL-CodeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, .. ,149: 38144 chip [7] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-size1,
    step-size1-5,
    step-size2,
    ...
}

FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,

```

```

    not-first-RLS,
    ...
}

FNReportingIndicator ::= ENUMERATED {
    fN-reporting-required,
    fN-reporting-not-required
}

FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --

FrameOffset ::= INTEGER (0..255)

FPACH-Power ::= ENUMERATED {
    -10, -9, -8, , -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ...}

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Partly omitted
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-- =====
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-- =====

MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

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

Max-Number-of-PCPCHes ::= INTEGER (1..64,...)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

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

```

MeasurementID ::= INTEGER (0..1048575)

```

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

```

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

```

MidambleShiftLCR ::= SEQUENCE {
  midambleAllocationMode MidambleAllocationMode,
  midambleShift MidambleShiftLong OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} } OPTIONAL,
  ...
}

```

```

MidambleAllocationMode ::= ENUMERATED {
  DefaultMidamble,
  CommonMidamble,
  UESpecificMidamble,
  ...
}

```

```

MidambleShiftLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

MinimumDL-PowerCapability ::= INTEGER(0..800)  
 -- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

```

MinSpreadingFactor ::= ENUMERATED {
  v4,
  v8,
  v16,
  v32,
}

```



```

        v64,
        v128,
        v256,
        v512
    }

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

.
.
.
Partly omitted
.
.
.
-- =====
-- S
-- =====

AdjustmentPeriod          ::= INTEGER(1..256)
-- Unit Frame

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

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

ScramblingCodeNumber ::= INTEGER (0..15)

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

Segment-Type ::= ENUMERATED {
    first-segment,
    first-segment-short,
    subsequent-segment,
    last-segment,
    last-segment-short,
    complete-SIB,

```

```
        complete-SIB-short,  
        ...  
    }  
  
S-FieldLength ::= ENUMERATED {  
    v1,  
    v2,  
    ...  
}  
  
SFN ::= INTEGER (0..4095)  
  
ShutdownTimer ::= INTEGER (1..3600)  
-- Unit sec  
  
SIB-Originator ::= ENUMERATED {  
    nodeB,  
    cRNC,  
    ...  
}  
  
SIR-Error-Value ::= INTEGER (0..125)  
  
SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)  
  
SIR-Value ::= INTEGER (0..63)  
-- According to mapping in [22]/[23]  
  
SIR-Value-IncrDecrThres ::= INTEGER (0..62)  
  
SSDT-Cell-Identity ::= 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  
}  
  
Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {  
    start-of-audit-sequence,  
    not-start-of-audit-sequence  
}  
  
STTD-Indicator ::= ENUMERATED {  
    active,  
    inactive,  
    ...  
}
```

```
}

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

SyncCase ::= INTEGER (1..2,...)

SYNCDC1CodeId ::= INTEGER (1..32,...)

-- =====
-- T
-- =====

T-Cell ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
    v8,
    v9
}

T-RLFFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s

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-ChannelisationCodeLCR ::= CHOICE {  
  sfl          ENUMERATED { QPSK, 8PSK, ... },  
  sfx          TDD-ChannelisationCode,  
  ...  
}
```

TDD-DL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem

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

```
TDD-DL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-DL-Code-LCR-InformationItem

```
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions          ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs} } OPTIONAL,
    ...
}
```

```
TDD-DL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

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

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

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

```
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE {
        gainFactor CHOICE {
            fdd SEQUENCE {
                betaC BetaCD,
                betaD BetaCD,
                iE-Extensions ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } } OPTIONAL,
                ...
            },
            tdd BetaCD,
            ...
        }
    }
}
```

```

    },
    refTFCNumber          RefTFCNumber    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
    ...
  },
  computedGainFactors    RefTFCNumber,
  ...
}

GainFactorFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TDD-UL-Code-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem

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

TDD-UL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF TDD-UL-Code-LCR-InformationItem

TDD-UL-Code-LCR-InformationItem ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions          ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } } OPTIONAL,
  ...
}

TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

TFCI-Presence ::= ENUMERATED {
  present,

```

```

    not-present
  }

TFCI-SignallingMode ::= SEQUENCE {
  tFCI-SignallingOption      TFCI-SignallingMode-TFCI-SignallingOption,
  splitType                  TFCI-SignallingMode-SplitType              OPTIONAL,
  -- This IE is only present if TFCI signalling option is split --
  lengthOfTFCI2              TFCI-SignallingMode-LengthOfTFCI2        OPTIONAL,
  -- This IE is only present if split type is logical --
  iE-Extensions              ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs} }  OPTIONAL,
  ...
}

TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)

TFCI-SignallingMode-SplitType ::= ENUMERATED {
  hard,
  logical
}

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

TFCI2-BearerInformationResponse ::= SEQUENCE {
  bindingID                  BindingID,
  transportLayerAddress      TransportLayerAddress,
  iE-Extensions              ProtocolExtensionContainer { { TFCI2-BearerInformationResponse-ExtIEs} }  OPTIONAL,
  ...
}

TFCI2-BearerInformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

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

TGPSID                       ::= INTEGER (1.. maxTGPS)

TGSN                          ::= INTEGER (0..14)

```

```

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

TimeSlotLCR ::= INTEGER (0..6)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

TimingAdvanceApplied ::= ENUMERATED {
    yes,
    no
}

-- For 1.28Mcps TDD TimingAdvanceApplied = No

ToAWE ::= INTEGER (0..2559)
-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
SEQUENCE {
    tGPSID          TGPSID,
    tGSN            TGSN,
    tGL1            GapLength,
    tGL2            GapLength OPTIONAL,
    tGD             TGD,
    tGPL1           GapDuration,
    tGPL2           GapDuration OPTIONAL,
    uL-DL-mode      UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method Uplink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType    DL-FrameType,
    delta-SIR1      DeltaSIR,
    delta-SIR-after1 DeltaSIR,

```



```

    delta-SIR2          DeltaSIR    OPTIONAL,
    delta-SIR-after2    DeltaSIR    OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

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

TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
    code-change,
    nocode-change
}

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [4]/[5]

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [4]/[5]

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

TransmissionDiversityApplied ::= BOOLEAN
-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

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

```

```

}

Split-in-TFCI-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

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

TFCS-CTFC ::= CHOICE {
    ctfc2bit                INTEGER (0..3),
    ctfc4bit                INTEGER (0..15),
    ctfc6bit                INTEGER (0..63),
    ctfc8bit                INTEGER (0..255),
    ctfc12bit               INTEGER (0..4095),
    ctfc16bit               INTEGER (0..65535),
    ctfcmaxbit              INTEGER (0..maxCTFC)
}

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
    SEQUENCE {
        cTFC                TFCS-CTFC,
        iE-Extensions       ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} }    OPTIONAL,
        ...
    }

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

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

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

```

```

}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)

TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH          TFCS-CTFC,
    iE-Extensions      ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs } } OPTIONAL,
    ...
  }

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

TransportBearerRequestIndicator ::= ENUMERATED {
  bearerRequested,
  bearerNotRequested,
  ...
}

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

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

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

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

TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
  transmissionIntervalInformation      TransmissionTimeIntervalInformation OPTIONAL,
  -- This IE is mandatory if the "Transmission Time Interval" of the "Semi-static Transport Format Information" is "dynamic". Otherwise it is absent.
  iE-Extensions          ProtocolExtensionContainer { {TDD-TransportFormatSet-ModeDP-ExtIEs} } OPTIONAL,
  ...
}

```

```

TDD-TransportFormatSet-ModeDP-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransmissionTimeIntervalInformation ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
    SEQUENCE {
        transmissionTimeInterval      TransportFormatSet-TransmissionTimeIntervalDynamic,
        iE-Extensions                 ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs} }    OPTIONAL,
        ...
    }

TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

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

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,
    v12,
    v16,
    v24,
    ...
}

```

```

TransportFormatSet-ModeDP ::= CHOICE {
    tdd                TDD-TransportFormatSet-ModeDP,
    notApplicable     NULL,
    ...
}

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

TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..512)

TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeSlot-related,
    ...
}

TransportFormatSet-TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    ...
}

TransportFormatSet-TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    ...
}

TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)

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

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

-- =====
-- U
-- =====

```

```

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz

UL-CapacityCredit ::= INTEGER (0..65535)

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

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

UL-Timeslot-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem

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

UL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeslotLCR-InformationItem

UL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR,
    tFCI-Presence              TFCI-Presence,
    uL-Code-InformationList     TDD-UL-Code-LCR-Information,
    iE-Extensions              ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs} } OPTIONAL,
    ...
}

UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

```

```

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]

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

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

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

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

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

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

UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-TimeSlot-ISCP-InfoItem

UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot                    TimeSlot,
    iSCP                        UL-TimeslotISCP-Value,
    iE-Extensions                ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs} } OPTIONAL,
    ...
}

UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeSlot-ISCP-LCR-InfoItem

UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    iSCP                        UL-TimeslotISCP-Value,
    iE-Extensions                ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs} } OPTIONAL,
    ...
}

```

```

UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-Information ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem

```

```

USCH-InformationItem ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    iE-Extensions          ProtocolExtensionContainer { { USCH-InformationItem-ExtIEs} } OPTIONAL,
    ...
}

```

```

USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationResponseItem

```

```

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

```

```

USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

UL-TimeSlotISCP-Value ::= INTEGER (0..81)
-- According to mapping in [23]

```

```

UL-TimeSlotISCP-Value-IncrDecrThres ::= INTEGER (0..80)

```

```

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

```

```

.
.
.

```

Partly omitted

```

.
.
.

```

## 9.3.6 Constant Definitions

```

-- *****

```



```

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

NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes;

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

id-audit                               ProcedureCode ::= 0
id-auditRequired                       ProcedureCode ::= 1
id-blockResource                       ProcedureCode ::= 2
id-cellDeletion                        ProcedureCode ::= 3
id-cellReconfiguration                 ProcedureCode ::= 4
id-cellSetup                           ProcedureCode ::= 5
id-commonMeasurementFailure            ProcedureCode ::= 6
id-commonMeasurementInitiation         ProcedureCode ::= 7
id-commonMeasurementReport            ProcedureCode ::= 8
id-commonMeasurementTermination        ProcedureCode ::= 9
id-commonTransportChannelDelete        ProcedureCode ::= 10
id-commonTransportChannelReconfigure   ProcedureCode ::= 11
id-commonTransportChannelSetup         ProcedureCode ::= 12
id-compressedModeCommand                ProcedureCode ::= 14
id-dedicatedMeasurementFailure         ProcedureCode ::= 16
id-dedicatedMeasurementInitiation      ProcedureCode ::= 17
id-dedicatedMeasurementReport          ProcedureCode ::= 18
id-dedicatedMeasurementTermination     ProcedureCode ::= 19
id-downlinkPowerControl                ProcedureCode ::= 20
id-downlinkPowerTimeslotControl        ProcedureCode ::= 38
id-errorIndicationForCommon            ProcedureCode ::= 35
id-errorIndicationForDedicated         ProcedureCode ::= 21
id-physicalSharedChannelReconfiguration ProcedureCode ::= 37
id-privateMessageForCommon             ProcedureCode ::= 36
id-privateMessageForDedicated          ProcedureCode ::= 22
id-radioLinkAddition                   ProcedureCode ::= 23
id-radioLinkDeletion                   ProcedureCode ::= 24
id-radioLinkFailure                    ProcedureCode ::= 25
id-radioLinkPreemption                 ProcedureCode ::= 39

```

id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34

```
-- *****
--
-- Lists
--
-- *****
```

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLCodes	INTEGER ::= 8
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfCPCHs	INTEGER ::= 4
maxNrOfPCPCHs	INTEGER ::= 64
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDSCHs	INTEGER ::= 32
maxNrOfFACHs	INTEGER ::= 8
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfPDSCHs	INTEGER ::= 256
maxNrOfPUSCHs	INTEGER ::= 256
maxNrOfPDSCHSets	INTEGER ::= 256
<u>maxNrOfPRACHLCRs</u>	<u>INTEGER ::= 8</u>
maxNrOfPUSCHSets	INTEGER ::= 256
<u>maxNrOfSCCPCHLCRs</u>	<u>INTEGER ::= 8</u>
maxNrOfULTSs	INTEGER ::= 15
maxNrOfUSCHs	INTEGER ::= 32
maxAPSigNum	INTEGER ::= 16
maxNrOfSlotFormatsPRACH	INTEGER ::= 8
maxCellInNodeB	INTEGER ::= 256
maxCCPinNodeB	INTEGER ::= 256
maxCPCHCell	INTEGER ::= maxNrOfCPCHs
maxCTFC	INTEGER ::= 16777215
maxLocalCellInNodeB	INTEGER ::= maxCellInNodeB
maxNoofLen	INTEGER ::= 7
<u>maxFPACHCell</u>	<u>INTEGER ::= 8</u>
maxRACHCell	INTEGER ::= maxPRACHCell
maxPRACHCell	INTEGER ::= 16
maxPCPCHCell	INTEGER ::= 64

```

maxSCCPCHCell          INTEGER ::= 32
maxSCPICHCell          INTEGER ::= 32
maxTTI-count           INTEGER ::= 4
maxIBSEG               INTEGER ::= 16
maxIB                  INTEGER ::= 64
maxFACHCell            INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching        INTEGER ::= 256
maxCodeNrComp-1       INTEGER ::= 256
maxNrOfCodeGroups     INTEGER ::= 256
maxNrOfTFCIGroups     INTEGER ::= 256
maxNrOfTFCI1Combs     INTEGER ::= 512
maxNrOfTFCI2Combs     INTEGER ::= 1024
maxNrOfTFCI2Combs-1   INTEGER ::= 1023
maxNrOfSF              INTEGER ::= 8
maxTGPS               INTEGER ::= 6
maxCommunicationContext INTEGER ::= 1048575
    
```

```

-- *****
--
-- IEs
--
-- *****
    
```

```

id-AICH-Information          ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1
id-BCH-Information          ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 8
id-BCCH-ModificationTime   ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator ProtocolIE-ID ::= 10
id-Cause                    ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp ProtocolIE-ID ::= 19
id-CellParameterID         ProtocolIE-ID ::= 23
id-CFN                     ProtocolIE-ID ::= 24
id-C-ID                    ProtocolIE-ID ::= 25
id-CommonMeasurementObjectType-CM-Rprt ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp ProtocolIE-ID ::= 33
id-CommonMeasurementType   ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD ProtocolIE-ID ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 38
id-CommunicationControlPortID ProtocolIE-ID ::= 40
id-ConfigurationGenerationID ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID ProtocolIE-ID ::= 44
id-CriticalityDiagnostics  ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD        ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 49
    
```

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id-DCHs-to-Add-TDD  
id-DCH-DeleteList-RL-ReconfPrepFDD  
id-DCH-DeleteList-RL-ReconfPrepTDD  
id-DCH-DeleteList-RL-ReconfRqstFDD  
id-DCH-DeleteList-RL-ReconfRqstTDD  
id-DCH-FDD-Information  
id-DCH-TDD-Information  
id-DCH-InformationResponse  
id-FDD-DCHs-to-Modify  
id-TDD-DCHs-to-Modify  
id-DCH-ModifyList-RL-ReconfRqstTDD  
id-DedicatedMeasurementObjectType-DM-Rprt  
id-DedicatedMeasurementObjectType-DM-Rqst  
id-DedicatedMeasurementObjectType-DM-Rsp  
id-DedicatedMeasurementType  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-DL-DPCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-Information-RL-ReconfPrepFDD  
id-DL-DPCH-Information-RL-ReconfRqstFDD  
id-DL-DPCH-Information-RL-SetupRqstFDD  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst  
id-DLReferencePower  
id-DLReferencePowerList-DL-PC-Rqst  
id-DSCH-AddItem-RL-ReconfPrepFDD  
id-DSCH-AddItem-RL-ReconfRqstFDD  
id-DSCHs-to-Add-FDD  
id-DSCH-DeleteItem-RL-ReconfPrepFDD  
id-DSCH-DeleteItem-RL-ReconfRqstFDD  
id-DSCH-DeleteList-RL-ReconfPrepFDD  
id-DSCH-ID  
id-DSCHs-to-Add-TDD  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  
id-DSCH-InformationResponse  
id-DSCH-FDD-Information  
id-DSCH-TDD-Information  
id-DSCH-ModifyItem-RL-ReconfPrepFDD  
id-DSCH-ModifyItem-RL-ReconfRqstFDD  
id-DSCH-ModifyList-RL-ReconfPrepFDD  
id-End-Of-Audit-Sequence-Indicator  
id-FACH-Information  
id-FACH-InformationItem-ResourceStatusInd  
id-FACHItem-CTCH-SetupRsp  
id-FACH-ParametersList-CTCH-ReconfRqstTDD  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD  
id-IndicationType-ResourceStatusInd  
id-Local-Cell-ID  
id-Local-Cell-Group-InformationItem-AuditRsp  
id-Local-Cell-Group-InformationItem-ResourceStatusInd

**302**

ProtocolIE-ID ::= 50  
ProtocolIE-ID ::= 52  
ProtocolIE-ID ::= 53  
ProtocolIE-ID ::= 54  
ProtocolIE-ID ::= 55  
ProtocolIE-ID ::= 56  
ProtocolIE-ID ::= 57  
ProtocolIE-ID ::= 59  
ProtocolIE-ID ::= 62  
ProtocolIE-ID ::= 63  
ProtocolIE-ID ::= 65  
ProtocolIE-ID ::= 67  
ProtocolIE-ID ::= 68  
ProtocolIE-ID ::= 69  
ProtocolIE-ID ::= 70  
ProtocolIE-ID ::= 72  
ProtocolIE-ID ::= 73  
ProtocolIE-ID ::= 76  
ProtocolIE-ID ::= 77  
ProtocolIE-ID ::= 79  
ProtocolIE-ID ::= 81  
ProtocolIE-ID ::= 82  
ProtocolIE-ID ::= 83  
ProtocolIE-ID ::= 84  
ProtocolIE-ID ::= 85  
ProtocolIE-ID ::= 86  
ProtocolIE-ID ::= 87  
ProtocolIE-ID ::= 88  
ProtocolIE-ID ::= 89  
ProtocolIE-ID ::= 91  
ProtocolIE-ID ::= 92  
ProtocolIE-ID ::= 93  
ProtocolIE-ID ::= 95  
ProtocolIE-ID ::= 96  
ProtocolIE-ID ::= 98  
ProtocolIE-ID ::= 100  
ProtocolIE-ID ::= 105  
ProtocolIE-ID ::= 106  
ProtocolIE-ID ::= 107  
ProtocolIE-ID ::= 108  
ProtocolIE-ID ::= 109  
ProtocolIE-ID ::= 112  
ProtocolIE-ID ::= 113  
ProtocolIE-ID ::= 116  
ProtocolIE-ID ::= 117  
ProtocolIE-ID ::= 118  
ProtocolIE-ID ::= 120  
ProtocolIE-ID ::= 121  
ProtocolIE-ID ::= 122  
ProtocolIE-ID ::= 123  
ProtocolIE-ID ::= 124  
ProtocolIE-ID ::= 2  
ProtocolIE-ID ::= 3

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id-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Local-Cell-Group-InformationList-AuditRsp  
id-Local-Cell-InformationItem-AuditRsp  
id-Local-Cell-InformationItem-ResourceStatusInd  
id-Local-Cell-InformationItem2-ResourceStatusInd  
id-Local-Cell-InformationList-AuditRsp  
id-AdjustmentPeriod  
id-MaxAdjustmentStep  
id-MaximumTransmissionPower  
id-MeasurementFilterCoefficient  
id-MeasurementID  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  
id-NodeB-CommunicationContextID  
id-P-CCPCH-Information  
id-P-CCPCH-InformationItem-ResourceStatusInd  
id-P-CPICH-Information  
id-P-CPICH-InformationItem-ResourceStatusInd  
id-P-SCH-Information  
id-PCCPCH-Information-Cell-ReconfRqstTDD  
id-PCCPCH-Information-Cell-SetupRqstTDD  
id-PCH-Parameters-CTCH-ReconfRqstTDD  
id-PCH-ParametersItem-CTCH-SetupRqstFDD  
id-PCH-ParametersItem-CTCH-SetupRqstTDD  
id-PCH-Information  
id-PD  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PDSCHSets-AddList-PSCH-ReconfRqst  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst  
id-PICH-Information  
id-PICH-Parameters-CTCH-ReconfRqstTDD  
id-PowerAdjustmentType  
id-PRACH-Information  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD  
id-PrimarySCH-Information-Cell-ReconfRqstFDD  
id-PrimarySCH-Information-Cell-SetupRqstFDD  
id-PrimaryScramblingCode  
id-ProcedureScopeType-DL-PC-Rqst  
id-SCH-Information-Cell-ReconfRqstTDD  
id-SCH-Information-Cell-SetupRqstTDD  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PUSCHSets-AddList-PSCH-ReconfRqst  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst  
id-RACH-Information  
id-RACHItem-CTCH-SetupRsp  
id-RACH-ParametersItem-CTCH-SetupRqstFDD  
id-RACH-ParameterItem-CTCH-SetupRqstTDD

**303**

ProtocolIE-ID ::= 4  
ProtocolIE-ID ::= 5  
ProtocolIE-ID ::= 125  
ProtocolIE-ID ::= 126  
ProtocolIE-ID ::= 127  
ProtocolIE-ID ::= 128  
ProtocolIE-ID ::= 129  
ProtocolIE-ID ::= 130  
ProtocolIE-ID ::= 131  
ProtocolIE-ID ::= 132  
ProtocolIE-ID ::= 133  
ProtocolIE-ID ::= 134  
ProtocolIE-ID ::= 143  
ProtocolIE-ID ::= 144  
ProtocolIE-ID ::= 145  
ProtocolIE-ID ::= 146  
ProtocolIE-ID ::= 147  
ProtocolIE-ID ::= 148  
ProtocolIE-ID ::= 150  
ProtocolIE-ID ::= 151  
ProtocolIE-ID ::= 155  
ProtocolIE-ID ::= 156  
ProtocolIE-ID ::= 157  
ProtocolIE-ID ::= 158  
ProtocolIE-ID ::= 160  
ProtocolIE-ID ::= 161  
ProtocolIE-ID ::= 162  
ProtocolIE-ID ::= 163  
ProtocolIE-ID ::= 164  
ProtocolIE-ID ::= 165  
ProtocolIE-ID ::= 166  
ProtocolIE-ID ::= 168  
ProtocolIE-ID ::= 169  
ProtocolIE-ID ::= 170  
ProtocolIE-ID ::= 175  
ProtocolIE-ID ::= 176  
ProtocolIE-ID ::= 177  
ProtocolIE-ID ::= 178  
ProtocolIE-ID ::= 179  
ProtocolIE-ID ::= 180  
ProtocolIE-ID ::= 181  
ProtocolIE-ID ::= 182  
ProtocolIE-ID ::= 183  
ProtocolIE-ID ::= 184  
ProtocolIE-ID ::= 185  
ProtocolIE-ID ::= 186  
ProtocolIE-ID ::= 187  
ProtocolIE-ID ::= 188  
ProtocolIE-ID ::= 189  
ProtocolIE-ID ::= 190  
ProtocolIE-ID ::= 192  
ProtocolIE-ID ::= 196  
ProtocolIE-ID ::= 197

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id-ReportCharacteristics  
id-Reporting-Object-RL-FailureInd  
id-Reporting-Object-RL-RestoreInd  
id-RL-ID  
id-RL-InformationItem-DM-Rprt  
id-RL-InformationItem-DM-Rqst  
id-RL-InformationItem-DM-Rsp  
id-RL-InformationItem-RL-AdditionRqstFDD  
id-RL-informationItem-RL-DeletionRqst  
id-RL-InformationItem-RL-FailureInd  
id-RL-InformationItem-RL-PreemptRequiredInd  
id-RL-InformationItem-RL-ReconfPrepFDD  
id-RL-InformationItem-RL-ReconfRqstFDD  
id-RL-InformationItem-RL-RestoreInd  
id-RL-InformationItem-RL-SetupRqstFDD  
id-RL-InformationList-RL-AdditionRqstFDD  
id-RL-informationList-RL-DeletionRqst  
id-RL-InformationList-RL-PreemptRequiredInd  
id-RL-InformationList-RL-ReconfPrepFDD  
id-RL-InformationList-RL-ReconfRqstFDD  
id-RL-InformationList-RL-SetupRqstFDD  
id-RL-InformationResponseItem-RL-AdditionRspFDD  
id-RL-InformationResponseItem-RL-ReconfReady  
id-RL-InformationResponseItem-RL-ReconfRsp  
id-RL-InformationResponseItem-RL-SetupRspFDD  
id-RL-InformationResponseList-RL-AdditionRspFDD  
id-RL-InformationResponseList-RL-ReconfReady  
id-RL-InformationResponseList-RL-ReconfRsp  
id-RL-InformationResponseList-RL-SetupRspFDD  
id-RL-InformationResponse-RL-AdditionRspTDD  
id-RL-InformationResponse-RL-SetupRspTDD  
id-RL-Information-RL-AdditionRqstTDD  
id-RL-Information-RL-ReconfRqstTDD  
id-RL-Information-RL-ReconfPrepTDD  
id-RL-Information-RL-SetupRqstTDD  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure  
id-RL-Set-InformationItem-DM-Rprt  
id-RL-Set-InformationItem-DM-Rsp  
id-RL-Set-InformationItem-RL-FailureInd  
id-RL-Set-InformationItem-RL-RestoreInd  
id-S-CCPCH-Information  
id-S-CPICH-Information  
id-SCH-Information  
id-S-SCH-Information  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD  
id-SecondarySCH-Information-Cell-ReconfRqstFDD  
id-SecondarySCH-Information-Cell-SetupRqstFDD

**304**

ProtocolIE-ID ::= 198  
ProtocolIE-ID ::= 199  
ProtocolIE-ID ::= 200  
ProtocolIE-ID ::= 201  
ProtocolIE-ID ::= 202  
ProtocolIE-ID ::= 203  
ProtocolIE-ID ::= 204  
ProtocolIE-ID ::= 205  
ProtocolIE-ID ::= 206  
ProtocolIE-ID ::= 207  
ProtocolIE-ID ::= 286  
ProtocolIE-ID ::= 208  
ProtocolIE-ID ::= 209  
ProtocolIE-ID ::= 210  
ProtocolIE-ID ::= 211  
ProtocolIE-ID ::= 212  
ProtocolIE-ID ::= 213  
ProtocolIE-ID ::= 237  
ProtocolIE-ID ::= 214  
ProtocolIE-ID ::= 215  
ProtocolIE-ID ::= 216  
ProtocolIE-ID ::= 217  
ProtocolIE-ID ::= 218  
ProtocolIE-ID ::= 219  
ProtocolIE-ID ::= 220  
ProtocolIE-ID ::= 221  
ProtocolIE-ID ::= 222  
ProtocolIE-ID ::= 223  
ProtocolIE-ID ::= 224  
ProtocolIE-ID ::= 225  
ProtocolIE-ID ::= 226  
ProtocolIE-ID ::= 227  
ProtocolIE-ID ::= 228  
ProtocolIE-ID ::= 229  
ProtocolIE-ID ::= 230  
ProtocolIE-ID ::= 236  
ProtocolIE-ID ::= 238  
ProtocolIE-ID ::= 240  
ProtocolIE-ID ::= 241  
ProtocolIE-ID ::= 242  
ProtocolIE-ID ::= 247  
ProtocolIE-ID ::= 249  
ProtocolIE-ID ::= 251  
ProtocolIE-ID ::= 253  
ProtocolIE-ID ::= 257  
ProtocolIE-ID ::= 258  
ProtocolIE-ID ::= 259  
ProtocolIE-ID ::= 260  
ProtocolIE-ID ::= 261  
ProtocolIE-ID ::= 262  
ProtocolIE-ID ::= 263  
ProtocolIE-ID ::= 264  
ProtocolIE-ID ::= 265

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id-SegmentInformationListIE-SystemInfoUpdate  
id-SFN  
id-ShutdownTimer  
id-Start-Of-Audit-Sequence-Indicator  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD  
id-SyncCase  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH  
id-T-Cell  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD  
id-TransmissionDiversityApplied  
id-UARFCNforNt  
id-UARFCNforNd  
id-UARFCNforNu  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-UL-DPCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-Information-RL-ReconfPrepFDD  
id-UL-DPCH-Information-RL-ReconfRqstFDD  
id-UL-DPCH-Information-RL-SetupRqstFDD  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD  
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD  
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD  
id-USCH-Information-Add  
id-USCH-Information-AddList-RL-ReconfRqstTDD  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD  
id-USCH-InformationResponse  
id-USCH-Information  
id-Active-Pattern-Sequence-Information  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-AdjustmentRatio  
id-AP-AICH-Information  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-CauseLevel-PSCH-ReconfFailureTDD  
id-CauseLevel-RL-AdditionFailureFDD  
id-CauseLevel-RL-AdditionFailureTDD  
id-CauseLevel-RL-ReconfFailure  
id-CauseLevel-RL-SetupFailureFDD  
id-CauseLevel-RL-SetupFailureTDD  
id-CDCA-ICH-Information  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD

**305**

ProtocolIE-ID ::= 266  
ProtocolIE-ID ::= 268  
ProtocolIE-ID ::= 269  
ProtocolIE-ID ::= 114  
ProtocolIE-ID ::= 270  
ProtocolIE-ID ::= 271  
ProtocolIE-ID ::= 272  
ProtocolIE-ID ::= 273  
ProtocolIE-ID ::= 274  
ProtocolIE-ID ::= 275  
ProtocolIE-ID ::= 276  
ProtocolIE-ID ::= 277  
ProtocolIE-ID ::= 278  
ProtocolIE-ID ::= 279  
ProtocolIE-ID ::= 280  
ProtocolIE-ID ::= 281  
ProtocolIE-ID ::= 282  
ProtocolIE-ID ::= 284  
ProtocolIE-ID ::= 285  
ProtocolIE-ID ::= 288  
ProtocolIE-ID ::= 289  
ProtocolIE-ID ::= 291  
ProtocolIE-ID ::= 293  
ProtocolIE-ID ::= 294  
ProtocolIE-ID ::= 295  
ProtocolIE-ID ::= 296  
ProtocolIE-ID ::= 297  
ProtocolIE-ID ::= 298  
ProtocolIE-ID ::= 299  
ProtocolIE-ID ::= 300  
ProtocolIE-ID ::= 301  
ProtocolIE-ID ::= 302  
ProtocolIE-ID ::= 303  
ProtocolIE-ID ::= 304  
ProtocolIE-ID ::= 305  
ProtocolIE-ID ::= 306  
ProtocolIE-ID ::= 307  
ProtocolIE-ID ::= 309  
ProtocolIE-ID ::= 310  
ProtocolIE-ID ::= 315  
ProtocolIE-ID ::= 316  
ProtocolIE-ID ::= 317  
ProtocolIE-ID ::= 320  
ProtocolIE-ID ::= 322  
ProtocolIE-ID ::= 323  
ProtocolIE-ID ::= 324  
ProtocolIE-ID ::= 325  
ProtocolIE-ID ::= 326  
ProtocolIE-ID ::= 327  
ProtocolIE-ID ::= 328  
ProtocolIE-ID ::= 329  
ProtocolIE-ID ::= 330  
ProtocolIE-ID ::= 332

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id-Closed-Loop-Timing-Adjustment-Mode  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD  
id-CPCH-Information  
id-CPCH-Parameters-CTCH-SetupRsp  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-DL-TPC-Pattern01Count  
id-DPCHConstant  
id-FACH-ParametersList-CTCH-SetupRsp  
id-Limited-power-increase-information-Cell-SetupRqstFDD  
id-PCH-Parameters-CTCH-SetupRsp  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD  
id-PCPCH-Information  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD  
id-PRACHConstant  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-PUSCHConstant  
id-RACH-Parameters-CTCH-SetupRsp  
id-Synchronisation-Configuration-Cell-ReconfRqst  
id-Synchronisation-Configuration-Cell-SetupRqst  
id-Transmission-Gap-Pattern-Sequence-Information  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD  
id-CommunicationContextInfoItem-Reset  
id-CommunicationControlPortInfoItem-Reset  
id-ResetIndicator  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD

**306**

ProtocolIE-ID ::= 333  
ProtocolIE-ID ::= 334  
ProtocolIE-ID ::= 335  
ProtocolIE-ID ::= 336  
ProtocolIE-ID ::= 342  
ProtocolIE-ID ::= 343  
ProtocolIE-ID ::= 346  
ProtocolIE-ID ::= 347  
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ProtocolIE-ID ::= 409  
ProtocolIE-ID ::= 412  
ProtocolIE-ID ::= 414  
ProtocolIE-ID ::= 416  
ProtocolIE-ID ::= 417  
ProtocolIE-ID ::= 418



id-TFCI2-BearerInformationResponse	ProtocolIE-ID ::= 419
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfoList-DL-PC-RqstTDD	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
<u>id-DL-DPCH-LCR-Information-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DL-DPCH-LCR-InformationList-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-Information</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-Information-AuditRsp</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-InformationList-AuditRsp</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-Information-Cell-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-Information-Cell-ReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-DwPCH-LCR-InformationList-ResourceStatusInd</u>	<u>ProtocolIE-ID ::=</u>
<u>id-maxFACH-Power-LCR-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-Information</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-Information-AuditRsp</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-InformationList-AuditRsp</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-InformationList-ResourceStatusInd</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PCCPCH-LCR-Information-Cell-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PCH-Power-LCR-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PCH-Power-LCR-CTCH-ReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PICH-LCR-Parameters-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-RL-InformationResponse-LCR-RL-SetupRspTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-TimeSlotLCR-CM-Rqst</u>	<u>ProtocolIE-ID ::=</u>
<u>id-UL-DPCH-LCR-Information-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>
<u>id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD</u>	<u>ProtocolIE-ID ::=</u>

END

## CHANGE REQUEST

⌘ **25.433 CR 359** ⌘ **3** ⌘ Current version: **3.4.1** ⌘

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

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

**Title:** ⌘ The impacts on TS 25.433 for supporting low chip rate TDD in the NBAP Dedicated Procedures

**Source:** ⌘ [R-WG3](#)

**Work item code:** ⌘ LCRTDD-lublur

**Date:** ⌘ Feb 2001

**Category:** ⌘ **B**

**Release:** ⌘ REL-4

Use one of the following categories:

- F** (essential correction)
- A** (corresponds to a correction in an earlier release)
- B** (Addition of feature),
- C** (Functional modification of feature)
- D** (Editorial modification)

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

- 2** (GSM Phase 2)
- R96** (Release 1996)
- R97** (Release 1997)
- R98** (Release 1998)
- R99** (Release 1999)
- REL-4** (Release 4)
- REL-5** (Release 5)

**Reason for change:** ⌘ The current TS only supports the 3.84Mcps option of TDD. It shall also support 1.28Mcps TDD in Rel-4. In particular, the physical channel related Information Elements in the NBAP messages related to TDD need to be complemented to include the 1.28Mcps option.

**Summary of change:** ⌘ The parameters which are needed for 1.28Mcps TDD are added in the Tabular Format of the messages of the NBAP Dedicated Procedures, the ASN.1 code is changed correspondingly, and the procedure text is suitably modified. References to new Information Elements for 1.28 Mcps TDD defined in the companion CR for the NBAP Common Procedures are included.

Rev1: In chapter 9.1.62, "PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]" has been corrected in tabular and ASN.1.

Rev2: Font corrected in tabular (minor editorial error).

Rev3:

1. In Ch9.1.39.2,9.1.42.2,9.1.62,9.1.67 ,in tabular, use current notation: no presence for groups and in case of optional, use start from "0";
2. In Ch9.1.39.2,9.1.42.2,9.1.62 , Add criticality in tabular .
3. In ASN.1,some capital letters are changed to small letters.
4. Include full included chapter.

Backward compatibility:

This CR is backward compatible with the previous version of NBAP. See TR 25.937 for more information on this issue.

<b>Consequences if not approved:</b>	⌘ If this CR is not approved, 1.28Mcps TDD will not be supported by NBAP.												
<b>Clauses affected:</b>	⌘ 8.2.18.2, 8.3.2.2, 9.1.39.2, 9.1.42.2, 9.1.62, 9.1.67, 9.3.3, 9.3.6												
<b>Other specs affected:</b>	<table border="0"> <tr> <td>⌘ <input type="checkbox"/></td> <td>Other core specifications</td> <td>⌘</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&amp;M Specifications</td> <td></td> <td></td> </tr> </table>	⌘ <input type="checkbox"/>	Other core specifications	⌘		<input type="checkbox"/>	Test specifications			<input type="checkbox"/>	O&M Specifications		
⌘ <input type="checkbox"/>	Other core specifications	⌘											
<input type="checkbox"/>	Test specifications												
<input type="checkbox"/>	O&M Specifications												
<b>Other comments:</b>	⌘ CR358 is the companion CR for NBAP Common Procedures.												

**How to create CRs using this form:**

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

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

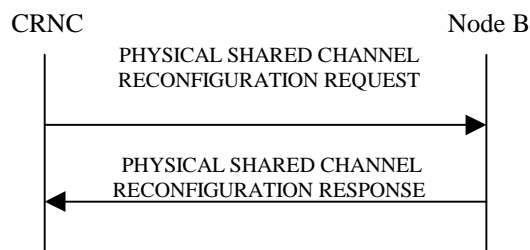
## 8.2.18 Physical Shared Channel Reconfiguration [TDD]

### 8.2.18.1 General

This procedure is used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.

- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.

### 8.2.18.2 Successful Operation



**Figure 26: Physical Shared Channel Reconfiguration: Successful Operation**

The procedure is initiated with a PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B.

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an *SFN* IE the Node B will activate the new configuration on that specified SFN.

#### **PDSCH/PUSCH Addition**

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added the Node B shall add these new sets to its PDSCH/PUSCH configuration.

#### **PDSCH/PUSCH Modification**

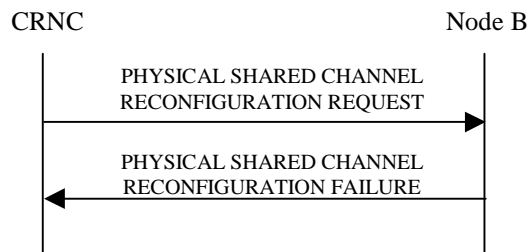
If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be modified, and includes any of [\[3.84Mcps TDD - TDD Channelisation Code IE, Burst Type IE, Midamble shift IE, Time Slot IE\]](#), [\[1.28Mcps TDD - TDD Channelisation Code LCR IE, Midamble shift LCR IE, Time Slot LCR IE\]](#), *TDD Physical Channel Offset IE*, *Repetition Period IE*, *Repetition Length IE*, or *TFCI presence IE* the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.

#### **PDSCH/PUSCH Deletion**

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be deleted the Node B shall delete these new sets to its PDSCH/PUSCH configuration.

In the successful case, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST, and shall make these available to all the current and future DSCH and USCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE:

### 8.2.18.3 Unsuccessful Operation



**Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Operation**

If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message. The *Cause Value* IE shall be set to an appropriate value.

If the configuration was unsuccessful, the Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message:

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Cell not available
- Node B Resources unavailable

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Protocol Cause**

- Semantic error

#### **Miscellaneous Cause**

- O&M Intervention
- Unspecified Failure
- Control processing overload
- HW failure

### 8.2.18.4 Abnormal Conditions

-

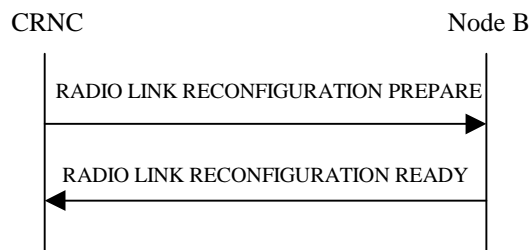
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 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 Node B.

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

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B 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.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

#### **DCH Modification:**

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

- If the *DCHs to Modify* IE includes the *Frame Handling Priority* IE, the Node B 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 Node B once the new configuration has been activated.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes the *Transport Format Set* IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs to Modify* IE includes multiple *DCH Specific Info* IEs then the Node B shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- If the *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new *ToAWE* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD – If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new *CCTrCH ID* in the Downlink of this DCH in the new configuration.]
- [TDD - If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new *CCTrCH ID* in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

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

- If the *DCHs to Add* IE multiple *DCH specific Info* IEs then, the Node B shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the *QE-Selector* is set to ”non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [16]].
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to “selected” shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to ”non-selected” the Physical channel BER shall be used for the QE, ref. [16]].
- The Node B 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 Node B once the new configuration has been activated.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHS in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD – The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD – The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCHs to Delete* IEs, the Node B shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

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

- [FDD - If the *UL DPCH Information IE* includes the *Uplink Scrambling Code IE*, the Node B shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD – If the *UL DPCH Information IE* includes the *Min UL Channelisation Code Length IE*, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the *Max Number of UL DPCHs IE* (if it is included) in the new configuration.]
- [FDD – If the *UL DPCH Information IE* includes the *UL SIR Target IE*, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD – If the *UL DPCH Information IE* includes the *Puncture Limit IE*, the Node B shall apply the value in the uplink of the new configuratio
- [FDD - The Node B shall use the *TFCS IE* for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]
- [FDD - If the *UL DPCH Information IE* includes the *UL DPCCCH Slot Format IE*, group the Node B shall set the new Uplink DPCCCH Structure to the new configuration.]
- [FDD - If the *UL DPCH Information IE* includes the *Diversity Mode IE*, the Node B shall apply diversity according to the given value.]
- [FDD – If the *UL DPCH Information IE* includes an *SSDT Cell Identity Length IE* and/or an *S-Field Length IE*, the Node B shall apply the values in the new configuration.]

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

- [FDD - The Node B shall use the *TFCS IE* for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD – If the *DL DPCH Information IE* includes the *TFCI Signalling Mode IE* or the *TFCI Presence IE*, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD - If the *DL DPCH Information IE* includes the *DL DPCCCH Slot Format IE*, group the Node B shall set the new Downlink DPCCCH Structure to the new configuration.]
- [FDD – If the *DL DPCH Information IE* includes the *Multiplexing Position IE*, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD – If the *DL DPCH Information IE* includes the *Limited Power Increase IE* and the IE is set to 'Used', the Node B 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 *DL DPCH Information IE* includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]
- [FDD - If the *DL DPCH Information IE* includes the *PDSCH code mapping IE* then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]
- [FDD - If the *DL DPCH Information IE* includes the *PDSCH RL ID IE* then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

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

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

- [TDD - If the IE includes any of *TFCS IE*, *TFCI coding IE* or *Puncture Limit IE* the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]



- [TDD – If the IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD – If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD – If the IE includes any *UL DPCH to modify* or *DL DPCH to modify* IEs, and includes any of *Repetition Period IE*, *Repetition Length IE*, or *TDD DPCH Offset IE* or the message includes *UL/DL Timeslot Information* and includes any of [[3.84Mcps TDD - Midamble shift and Burst Type IE](#), [Time Slot IE](#)], [[1.28Mcps TDD - Midamble shift LCR IE](#), [Time Slot LCR IE](#)], or *TFCI presence IE* or the message includes *UL/DL Code information* and includes [[3.84 Mcps TDD - TDD Channelisation Code IE](#)], [[1.28Mcps TDD - TDD Channelisation Code LCR IE](#)], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

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

[TDD - If the *UL/DL CCTrCH to Add IE* includes any *UL/DL DPCH Information IE*, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

#### [TDD – UL/DL CCTrCH Deletion]

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

#### DSCH Addition/Modification/Deletion:

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

The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address IE* and the *Binding ID IE* for the transport bearer to be established for each DSCH.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Information IE* then the Node B shall support the setup of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID IE* and *Transport Layer Address IE* of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information IE* is not included in the message then the Node B shall transmit the TFCI2 field with zero power in the new configuration.]

[FDD - If the *TFCI Signaling Mode IE* within the RADIO LINK RECONFUGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information IE* is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signaling control frame is received on this bearer in the new configuration (see ref.[24]).]

#### [TDD - USCH Addition/Modification/Deletion:]

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the NodeB shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address IE* and the *Binding ID IE* for the transport bearer to be established for each USCH.]

**RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When  $p$  number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to “*PhCH number 1*”, the second to “*PhCH number 2*”, and so on until the  $p$ th to “*PhCH number p*”.]
- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD – If the *RL Information* IE includes a *DL Code Information* IE containing a *DL Scrambling Code* IE, the Node B shall apply the scrambling code in the new configuration.]
- [FDD – If the *RL Information* IE includes the *DL Code Information* IE containing a *DL Channelisation Code Number* IE, the Node B shall apply the channelisation code in the new configuration.]
- [FDD- If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration.

**General**

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

In the RADIO LINK RECONFIGURATION READY message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

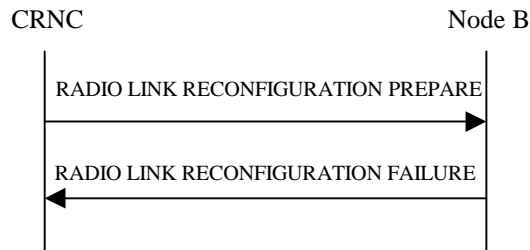
The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

In case of a DCH requiring a new transport bearer on Iur, the *Transport Layer Address* IE and the *Binding ID* shall be included in the *DCH Information Response* IE group.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the *RL Information Response* IE group shall be included only for one of the combined RLs. The *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

### 8.3.2.3 Unsuccessful Operation



**Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation**

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLS the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

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

[FDD - If the RL Information IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. In this case, it shall respond with a RADIO LINK RECONFIGURATION FAILURE message.]

Typical cause values are as follows:

#### Radio Network Layer Cause

- UL SF not supported
- DL SF not supported
- Invalid CM Settings
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

#### 8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

## 9.1.39 RADIO LINK ADDITION REQUEST

## 9.1.39.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
Compressed Mode Deactivation Flag	O		9.2.2.3A		YES	reject
<b>RL Information</b>		<i>1..&lt;maxnoofRL-1&gt;</i>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Diversity Control Field	M		9.2.1.25		–	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		–	
>Initial DL transmission power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power 9.2.1.21		–	
>Minimum DL power	O		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	O		9.2.2.53		–	

Range bound	Explanation
<i>MaxnoofRL</i>	Maximum number of RLs for one UE
<i>MaxnoofDL Codes</i>	Maximum number of DL code information

## 9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH Information</b>		0 to <maxn o CCTrCH>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
<b>&gt;UL DPCH Information</b>		0..1		For 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information	M		9.2.3.26C		–	
<b>&gt;UL DPCH Information LCR</b>		0..1		For 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information LCR	M		9.2.3.x8		–	
<b>DL CCTrCH Information</b>		0 to <maxn o CCTrCH>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
<b>&gt;DL DPCH information</b>		0..1		For 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>DL Timeslot Information	M		9.2.3.4E		–	
<b>&gt;DL DPCH information LCR</b>		0..1		For 1.28Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>DL Timeslot Information LCR	M		9.2.3.x7		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Diversity Control Field	M		9.2.1.25		–	
>Initial DL transmission Power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power		–	

			9.2.1.21			
>Minimum DL power	O		DL Power 9.2.1.21		-	
>DL Timeslot ISCP Information		<del>0</del> .. <i>maxnoofDLts</i> >		For 3.84Mcps TDD only	-	
>>Time slot	M		9.2.3.23		-	
>>DL Timeslot ISCP	M		9.2.3.4B		-	
>DL Timeslot ISCP Information <u>LCR</u>		<del>40</del> .. <i>MaxnoofDLtsLCR</i> >		For 1.28Mcps TDD only	<del>GLOBAL</del>	<del>reject</del>
>>Time slot LCR	<u>M</u>		<u>9.2.3.x2</u>		=	
>>DL Timeslot ISCP	<u>M</u>		<u>9.2.3.4B</u>		=	

Range bound	Explanation
MaxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link <u>for 3.84Mcps TDD</u>
<u>MaxnoofDLtsLCR</u>	<u>Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD</u>

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

## 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58		–	
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>Puncture Limit	O		9.2.1.50	For UL	–	
>TFCS	O		9.2.1.58		–	
>UL DPCCH Slot Format	O		9.2.2.57		–	
>Diversity mode	O		9.2.2.9		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58		–	
>DL DPCH Slot Format	O		9.2.2.10		–	
>TFCI Signalling Mode	O		9.2.2.50		–	
>TFCI presence	C-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25		–	
>PDSCH RL ID	O		RL ID 9.2.1.53		–	
>Limited Power Increase	O		9.2.2.18A		–	
DCHs to Modify	O		DCHs FDD to Modify 9.2.2.4E		YES	reject
DCHs to Add	O		DCH FDD Information 9.2.2.4D		YES	reject
<b>DCHs to Delete</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		0..<max noofDS CHs>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Allocation/Retention Priority	O		9.2.1.1A		–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	



>Transport Bearer Request Indicator	M		9.2.1.62A		–	
DSCH to add	O		DSCH FDD Information 9.2.2.13B		YES	reject
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>TFCI2 bearer specific information</b>		0..1			YES	reject
>CHOICE <i>TFCI2 bearer action</i>	M				–	
>> <i>Add or modify</i>					–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	
>> <i>Delete</i>			NULL		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
>DL Code Information	O		FDD DL Code Information 9.2.2.14A		–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C–SSDTIndON		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		–	
Transmission Gap Pattern Sequence Information	O		9.2.2.53A		YES	reject

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 value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> IE is included and the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2".
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group, unless it is equal to "none"

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

## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to Add</b>		0..<maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>	<b>Ⓞ</b>	0..1		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information	M		9.2.3.26C		–	
<b>&gt;UL DPCH Information LCR</b>	<b>Ⓞ</b>	0..1		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information LCR	M		9.2.3.x8		–	
<b>UL CCTrCH to Modify</b>		0..<maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>TFCI Coding	O		9.2.3.22		–	
>Puncture Limit	O		9.2.1.50		–	
<b>&gt;UL DPCH to add</b>	<b>Ⓞ</b>	0..1		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD DPCH Offset	M		9.2.3.19A		–	
>>UL Timeslot Information	M		9.2.3.26C		–	
<b>&gt;UL DPCH to modify</b>		0..1			YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD DPCH Offset	O		9.2.3.19A		–	
<b>&gt;&gt;UL Timeslot Information</b>	<b>Ⓞ</b>	0 to <maxno of ULTs>		For 3.84Mcps TDD only	–	
>>>Time Slot	M		9.2.3.23		–	

>>>Midamble Shift and Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
<b>&gt;&gt;&gt;UL Code Information</b>		0 to <maxno OfDPC H>			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code	O		9.2.3.19		-	
<u>&gt;&gt;UL Timeslot Information LCR</u>	<u>Q</u>	<u>0 to &lt;Maxno ofULtsL CR&gt;</u>		<u>For 1.28Mcps TDD only</u>	<u>GLOBAL</u>	<u>reject</u>
<u>&gt;&gt;&gt;Time Slot LCR</u>	<u>M</u>		<u>9.2.3.x2</u>		=	
<u>&gt;&gt;&gt;Midamble shift LCR</u>	<u>O</u>		<u>9.2.3.x6</u>		=	
<u>&gt;&gt;&gt;TFCI Presence</u>	<u>O</u>		<u>9.2.1.57</u>		=	
<u>&gt;&gt;&gt;UL Code Information LCR</u>		<u>0 to &lt;maxno OfDPC HLCR&gt;</u>			=	
<u>&gt;&gt;&gt;&gt;DPCH ID</u>	<u>M</u>		<u>9.2.3.5</u>		=	
<u>&gt;&gt;&gt;&gt;TDD Channelisation Code LCR</u>	<u>O</u>		<u>9.2.3.x5</u>		=	
<b>&gt;UL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		-	
<u>&gt;UL DPCH to add LCR</u>	<u>Q</u>	<u>0..1</u>		<u>For 1.28Mcps TDD only</u>	<u>YES</u>	<u>reject</u>
<u>&gt;&gt;Repetition Period</u>	<u>M</u>		<u>9.2.3.16</u>		=	
<u>&gt;&gt;Repetition Length</u>	<u>M</u>		<u>9.2.3.15</u>		=	
<u>&gt;&gt;TDD DPCH Offset</u>	<u>M</u>		<u>9.2.3.19A</u>		=	
<u>&gt;&gt;UL Timeslot Information LCR</u>	<u>M</u>		<u>9.2.3.x8</u>		=	
<b>UL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
<b>DL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TFCI Coding	M		9.2.3.22		-	
>PunctureLimit	M		9.2.1.50		-	
<b>&gt;TPC CCTrCH List</b>		0 to <maxno CCTrC H>		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
<b>&gt;DL DPCH Information</b>	<u>Q</u>	<u>0..1</u>		<u>For 3.84Mcps</u>	YES	reject

				TDD only		
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
<b>&gt;DL DPCH Information LCR</b>	⊖	0..1		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD DPCH Offset	M		9.2.3.19A		=	
>>DL Timeslot Information LCR	M		9.2.3.x7		=	
<b>DL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3.		-	
>TFCS	O		9.2.1.58		-	
>TFCI Coding	O		9.2.3.22		-	
>PunctureLimit	O		9.2.1.50		-	
<b>&gt;TPC CCTrCH List</b>		0 to <maxno CCTrC H>		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		-	
<b>&gt;DL DPCH to add</b>	⊖	0..1		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		-	
>>DL Timeslot Information	M		9.2.3.4E		-	
<b>&gt;DL DPCH to modify</b>		0..1			YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD DPCH Offset	O		9.2.3.19A		-	
<b>&gt;&gt;DL Timeslot Information</b>	⊖	0.. <maxno ofDLts>		For 3.84Mcps TDD only	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift and Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
<b>&gt;&gt;&gt;DL Code Information</b>		0 .. <maxno OfDPC H>			-	
>>>>DPCH ID	M		9.2.3.5		-	
>>>>TDD Channelisation Code	O		9.2.3.19		-	
<b>&gt;&gt;DL Timeslot Information LCR</b>	⊖	0.. <Maxno ofDLtsL CR>		For 1.28Mcps TDD only	GLOBAL	reject
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>Midaamble shift LCR	O		9.2.3.x6			
>>>TFCI Presence	O		9.2.1.57		=	

<b>&gt;&gt;&gt;DL Code Information LCR</b>		0.. <maxno OfDPC HLCRs ≥			=	
<b>&gt;&gt;&gt;&gt;DPCH ID</b>	<u>M</u>		9.2.3.5		=	
<b>&gt;&gt;&gt;&gt;TDD Channelisation Code LCR</b>	<u>O</u>		9.2.3.x5		=	
<b>&gt;DL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		-	
<b>&gt;DL DPCH to add LCR</b>	<u>ϕ</u>	0..1		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	<u>M</u>		9.2.3.16		=	
>>Repetition Length	<u>M</u>		9.2.3.15		=	
>>TDD DPCH Offset	<u>M</u>		9.2.3.19A		=	
>>DL Timeslot Information LCR	<u>M</u>		9.2.3.x7		=	
<b>DL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
DCHs to Modify	O		DCHs TDD to Modify 9.2.3.4D		YES	reject
DCHs to Add	O		DCH TDD Information 9.2.3.4C		YES	reject
<b>DCHs to Delete</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		-	
<b>DSCH Information to modify</b>		0.. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	O		9.2.1.59		-	
> Allocation/Retention Priority	O		9.2.1.1A		-	
>Frame Handling Priority	O		9.2.1.30		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
>Transport Bearer Request Indicator	M		9.2.1.62A		-	
DSCH Information to add	O		DSCH TDD Information 9.2.3.5A		YES	reject
<b>DSCH Information to delete</b>		0.. <Maxno of			GLOBAL	reject

		DSCHs >				
>DSCH ID	M		9.2.1.27		-	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
>Transport Format Set	O		9.2.1.59		-	
> Allocation/Retention Priority	O		9.2.1.1A		-	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
>Transport Bearer Request Indicator	M		9.2.1.62A		-	
USCH Information to add	O		USCH Information 9.2.3.28		YES	reject
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		-	
>Maximum Downlink Power	O		DL Power 9.2.1.21		-	
>Minimum Downlink Power	O		DL Power 9.2.1.21		-	

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

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH <u>for 3.84Mcps TDD.</u>
<i>MaxnoOfDPCHLCRs</i>	<u>Maximum number of DPCHs in one CCTrCH for 1.28Mcps TDD.</u>
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link <u>for 3.84Mcps TDD.</u>
<i>MaxnoofDLtsLCR</i>	<u>Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.</u>
<i>MaxnoofULts</i>	Maximum number of Uplink time slots per Radio Link <u>for 3.84Mcps TDD.</u>
<i>MaxnoofULtsLCR</i>	<u>Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD.</u>

## 9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
SFN	O		9.2.1.53A		YES	reject
<b>PDSCH Sets to add</b>		<i>0..&lt;maxnoof PDSCHSets &gt;</i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
<b>&gt;PDSCH Information</b>	<u>Ⓞ</u>	<u>0..1</u>		<u>Mandatory for 3.84Mcps TDD only</u>	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
<b>&gt;&gt;DL Timeslot Information</b>	<u>Ⓞ</u>	<u>1 .. &lt;maxnoofDL ts&gt;</u>		<u>For 3.84Mcps TDD only</u>	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>>TFCI Presence	M		9.2.1.57		-	
<b>&gt;&gt;&gt;DL Code Information</b>		<u>1 .. &lt;maxnoOfP DSCH&gt;</u>			-	
>>>>PDSCH ID	M		9.2.3.10		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
<b>&gt;PDSCH to add Information LCR</b>	<u>Ⓞ</u>	<u>0..1</u>		<u>Mandatory for 1.28Mcps TDD only</u>	<u>YES</u>	<u>reject</u>
>>Repetition Period	<u>M</u>		<u>9.2.3.16</u>		<u>=</u>	
>>Repetition Length	<u>M</u>		<u>9.2.3.15</u>		<u>=</u>	
>>TDD Physical Channel Offset	<u>M</u>		<u>9.2.3.20</u>		<u>=</u>	
<b>&gt;&gt;DL Timeslot Information LCR</b>	<u>Ⓞ</u>	<u>1 .. &lt;MaxnoofDL tsLCR&gt;</u>		<u>For 1.28Mcps TDD only</u>	<u>GLOBAL</u>	<u>reject</u>
>>>Time Slot LCR	<u>M</u>		<u>9.2.3.x2</u>		<u>=</u>	
>>>TFCI Presence	<u>M</u>		<u>9.2.1.57</u>		<u>=</u>	
<b>&gt;&gt;&gt;DL Code Information LCR</b>	<u>M</u>	<u>1 .. &lt;maxnoOfP DSCH&gt;</u>			<u>GLOBAL</u>	<u>reject</u>
>>>>PDSCH ID	<u>M</u>		<u>9.2.3.10</u>		<u>=</u>	
>>>>TDD Channelisation Code LCR	<u>M</u>		<u>9.2.3.x5</u>		<u>=</u>	
<b>PDSCH Sets to Modify</b>		<i>0..&lt;maxnoof PDSCHSets &gt;</i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	



>PDSCH Information	Ⓞ	0..1		<a href="#">Mandatory for 3.84Mcps TDD only</a>	YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>DL Timeslot Information		0 .. <maxnoofDLts>			-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift and Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>DL Code Information		0 .. <maxnoOfPDSCH>			-	
>>>>PDSCH ID	M		9.2.3.10		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PDSCH to modify Information LCR	Ⓞ	0..1		<a href="#">Mandatory for 1.28 Mcps TDD</a>	YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>DL Timeslot Information LCR	Ⓞ	0 .. <MaxnoofDLtsLCR>			GLOBAL-	reject
>>>Time Slot LCR	M		9.2.3.x2		-	
>>>Midamble shift LCR	O		9.2.3.x6		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>DL Code Information LCR	Ⓞ	0 .. <maxnoOfPDSCHLCR>			GLOBAL-	reject
>>>>PDSCH ID	M		9.2.3.10		-	
>>>>TDD Channelisation Code LCR	M		9.2.3.x5		-	
PDSCH Sets to Delete		0..<maxnoof PDSCHSets >			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		-	
PUSCH Sets to add		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>PUSCH Information	Ⓞ	0..1		<a href="#">Mandatory for 3.84Mcps TDD</a>	YES	reject
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>UL Timeslot Information	Ⓞ	1 .. <maxnoofULts>		<a href="#">For 3.84Mcps TDD only</a>	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information		1.. <maxnoOfPUSCH>			-	
>>>>PUSCH ID	M		9.2.3.12		-	

>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PUSCH to add Information LCR	O	1		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	M		9.2.3.16		=	
>>Repetition Length	M		9.2.3.15		=	
>>TDD Physical Channel Offset	M		9.2.3.20		=	
>>UL Timeslot Information LCR	O	10 .. <MaxnoofUL tsLCR>		For 1.28Mcps TDD only	GLOBAL-	reject
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>Midamble shift LCR	M		9.2.3.x6			
>>>TFCI Presence	M		9.2.1.57		-	
>>>UL Code Information LCR	M	1 .. <maxnoOfP USCHLCR>			GLOBAL-	reject
>>>>PUSCH ID	M		9.2.3.12		=	
>>>>TDD Channelisation Code LCR	M		9.2.3.x5		=	
PUSCH Sets to Modify		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	
>PUSCH Information	O	0..1		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		-	
>>Repetition Length	O		9.2.3.15		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>UL Timeslot Information	O	0 .. <maxnoofUL ts>		For 3.84Mcps TDD only	-	
>>>Time Slot	M		9.2.3.23		-	
>>>Midamble Shift and Burst Type	O		9.2.3.7		-	
>>>TFCI Presence	O		9.2.1.57		-	
>>>UL Code Information		0 .. <maxnoOfP DSCH>			-	
>>>>PUSCH ID	M		9.2.3.12		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>PUSCH to modify Information LCR	O	0..1		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		=	
>>Repetition Length	O		9.2.3.15		=	
>>TDD Physical Channel Offset	O		9.2.3.20		=	
>>UL Timeslot Information LCR	O	10 .. <MaxnoofUL tsLCR>		For 1.28Mcps TDD only	GLOBAL-	reject
>>>Time Slot LCR	M		9.2.3.x2		=	
>>>Midamble shift LCR	M		9.2.3.x6			
>>>TFCI Presence	O		9.2.1.57		-	
>>>UL Code Information LCR		0 .. <maxnoOfP DSCHLCR>			GLOBAL-	reject
>>>>PUSCH ID	M		9.2.3.12		=	
>>>>TDD Channelisation Code LCR	M		9.2.3.x5		=	
PUSCH Sets to Delete		0..<maxnoof PUSCHSets >			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		-	

Range bound	Explanation
-------------	-------------

Maxnoof PDSCH Sets	Maximum number of PDSCH Sets in a cell.
Maxnoof PDSCH	Maximum number of PDSCH in a cell <a href="#">for 3.84Mcps TDD only.</a>
<a href="#">MaxnoOfPDSCHLCR</a>	<a href="#">Maximum number of PDSCH in a cell for 1.28Mcps TDD only.</a>
Maxnoof PUSCH Sets	Maximum number of PUSCH Sets in a cell.
Maxnoof PUSCH	Maximum number of PUSCH in a cell <a href="#">for 3.84Mcps TDD.</a>
<a href="#">Maxnoof PUSCHLCR</a>	<a href="#">Maximum number of PUSCH in a cell for 1.28Mcps TDD.</a>
MaxnoofDLts	Maximum number of Downlink time slots in a cell <a href="#">for 3.84Mcps TDD.</a>
<a href="#">MaxnoofDLtsLCR</a>	<a href="#">Maximum number of Downlink time slots in a cell for 1.28Mcps TDD.</a>
MaxnoofULts	Maximum number of Uplink time slots in a cell <a href="#">for 3.84Mcps TDD.</a>
<a href="#">MaxnoofULtsLCR</a>	<a href="#">Maximum number of Uplink time slots in a cell for 1.28Mcps TDD.</a>

9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value “All NBCC” shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
DL Timeslot ISCP Information	$\varnothing$	10..<maxno ofDLts>		Mandatory For 3.84Mcps TDD only	GLOBAL	ignore
>RL ID	M		9.2.1.53		–	
>Time slot	M		9.2.3.23		–	
>DL Timeslot ISCP	M		9.2.3.4B		–	
DL Timeslot ISCP Information LCR	$\varnothing$	10..<Maxno ofDLtsLCR>		Mandatory For 1.28Mcps TDD only	GLOBAL	ignore
>RL ID	M		9.2.1.53		–	
>Time slot LCR	M		9.2.3.x2		–	
>DL Timeslot ISCP	M		9.2.3.4B		–	

Range Bound	Explanation
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD.
MaxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.

## 9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-Power,
    AICH-TransmissionTiming,
    AllocationRetentionPriority,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    Cause,
    CTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonMeasurementValueInformation,
    CommonPhysicalChannelID,
    Common-PhysicalChannel-Status-Information,
```

Common-TransportChannel-Status-Information,  
CommonTransportChannelID,  
CommonTransportChannel-InformationResponse,  
CommunicationControlPortID,  
ConfigurationGenerationID,  
ConstantValue,  
CriticalityDiagnostics,  
CPCH-Allowed-Total-Rate,  
CPCHScramblingCodeNumber,  
CPCH-UL-DPCCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-FDD-Information,  
DCH-InformationResponse,  
DCH-ID,  
FDD-DCHs-to-Modify,  
TDD-DCHs-to-Modify,  
DCH-TDD-Information,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DedicatedMeasurementValueInformation,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-Timeslot-Information,  
DL-TimeslotISCPInfo,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
DSCH-FDD-Information,  
DSCH-InformationResponse,  
DSCH-TDD-Information,  
End-Of-Audit-Sequence-Indicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,  
FrameHandlingPriority,  
FrameOffset,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
InnerLoopDLPCStatus,

LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftAndBurstType,  
MinimumDL-PowerCapability,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PICH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
Received-total-wide-band-power-Value,  
AdjustmentPeriod,

ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
Segment-Type,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
Start-Of-Audit-Sequence-Indicator,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-DPCHOffset,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI2-BearerInformationResponse,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
TimingAdvanceApplied,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportBearerRequestIndicator,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
USCH-Information,  
USCH-InformationResponse,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-PhysCH-SF-Variation,  
UL-ScramblingCode,  
UL-TimeSlot-Information,  
UL-TimeSlot-ISCP-Info,  
UL-TimeSlotISCP-Value,



```

    UL-TimeslotISCP-Value-IncrDecrThres,
    USCH-ID
FROM NBAP-IEs

    PrivateIE-Container{},
    ProtocolExtensionContainer{},
    ProtocolIE-Container{},
    ProtocolIE-Single-Container{},
    ProtocolIE-ContainerList{},
    NBAP-PRIVATE-IES,
    NBAP-PROTOCOL-IES,
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers

    id-Active-Pattern-Sequence-Information,
    id-AdjustmentRatio,
    id-AICH-Information,
    id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
    id-AP-AICH-Information,
    id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
    id-BCH-Information,
    id-BCCH-ModificationTime,
    id-BlockingPriorityIndicator,
    id-Cause,
    id-CauseLevel-PSCH-ReconfFailureTDD,
    id-CauseLevel-RL-AdditionFailureFDD,
    id-CauseLevel-RL-AdditionFailureTDD,
    id-CauseLevel-RL-ReconfFailure,
    id-CauseLevel-RL-SetupFailureFDD,
    id-CauseLevel-RL-SetupFailureTDD,
    id-CCP-InformationItem-AuditRsp,
    id-CCP-InformationList-AuditRsp,
    id-CCP-InformationItem-ResourceStatusInd,
    id-CDCA-ICH-Information,
    id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,
    id-Cell-InformationItem-AuditRsp,
    id-Cell-InformationItem-ResourceStatusInd,
    id-Cell-InformationList-AuditRsp,
    id-CellParameterID,
    id-CFN,
    id-CFNReportingIndicator,
    id-C-ID,
    id-Closed-Loop-Timing-Adjustment-Mode,
    id-CommonMeasurementObjectType-CM-Rprt,
    id-CommonMeasurementObjectType-CM-Rqst,
    id-CommonMeasurementObjectType-CM-Rsp,
    id-CommonMeasurementType,
    id-CommonPhysicalChannelID,
    id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,
    id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,
    id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
    id-CommonTransportChannelType-CTCH-ReconfRqstTDD,
    id-CommunicationContextInfoItem-Reset,

```

id-CommunicationControlPortID,  
id-CommunicationControlPortInfoItem-Reset,  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,  
id-ConfigurationGenerationID,  
id-CPCH-Information,  
id-CPCH-Parameters-CTCH-SetupRsp,  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-DCHs-to-Add-FDD,  
id-DCHs-to-Add-TDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-FDD-Information,  
id-DCH-TDD-Information,  
id-DCH-InformationResponse,  
id-FDD-DCHs-to-Modify,  
id-TDD-DCHs-to-Modify,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCH-AddItem-RL-ReconfRqstFDD,  
id-DSCHs-to-Add-FDD,

id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteItem-RL-ReconfRqstFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCH-ID,  
id-DSCHs-to-Add-TDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-InformationResponse,  
id-DSCH-FDD-Information,  
id-DSCH-TDD-Information,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyItem-RL-ReconfRqstFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-End-Of-Audit-Sequence-Indicator,  
id-FACH-Information,  
id-FACHItem-CTCH-SetupRsp,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-InnerLoopDLPCStatus,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-Group-InformationItem-AuditRsp,  
id-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Local-Cell-Group-InformationList-AuditRsp,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,  
id-NodeB-CommunicationContextID,  
id-P-CCPCH-Information,  
id-P-CPICH-Information,  
id-P-SCH-Information,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-Information,  
id-PCPCH-Information,  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD,

id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-Information,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PICH-ParametersItem-CTCH-SetupRqstTDD,  
id-PowerAdjustmentType,  
id-PRACH-Information,  
id-PRACHConstant,  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-ProcedureScopeType-DL-PC-Rqst,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-RACH-Information,  
id-RACHItem-CTCH-SetupRsp,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-ResetIndicator,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,  
id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-PreemptRequiredInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,

id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-PreemptRequiredInd,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-S-CCPCH-Information,  
id-S-CPICH-Information,  
id-SCH-Information,  
id-S-SCH-Information,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-SFN,  
id-SFNReportingIndicator,  
id-ShutdownTimer,  
id-Start-Of-Audit-Sequence-Indicator,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespList-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-T-Cell,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse,

id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,  
 id-Transmission-Gap-Pattern-Sequence-Information,  
 id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
 id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
 id-TimeSlotISCPInfoList-DL-PC-RqstTDD,  
 id-TimingAdvanceApplied,  
 id-TransmissionDiversityApplied,  
 id-UARFCNforNt,  
 id-UARFCNforNd,  
 id-UARFCNforNu,  
 id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
 id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
 id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
 id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
 id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
 id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
 id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
 id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
 id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
 id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
 id-UL-DPCH-Information-RL-ReconfPrepFDD,  
 id-UL-DPCH-Information-RL-ReconfRqstFDD,  
 id-UL-DPCH-Information-RL-SetupRqstFDD,  
 id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
 id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,  
 id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
 id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
 id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,  
 id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,  
 id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
 id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
 id-USCH-Information-Add,  
 id-USCH-Information-AddList-RL-ReconfRqstTDD,  
 id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
 id-USCH-Information-DeleteList-RL-ReconfRqstTDD,  
 id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
 id-USCH-Information-ModifyList-RL-ReconfRqstTDD,  
 id-USCH-InformationResponse,  
 id-USCH-Information,  
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
id-Timeslot-IMBSLOTISCP-InformationList-LCR-RL-AdditionRqstTDD,  
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,

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id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-LCR-InformationModify-AddList,
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD,
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,

maxNrOfCCTrCHs,
maxNrOfCodes,
maxNrOfCPCHs,
maxNrOfDCHs,
maxNrOfDLCodes,
maxNrOfDLTSS,
maxNrOfDLTSLCRs,
maxNrOfDPCHs,
maxNrOfDSCHs,
maxNrOfFACHs,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfPCPCHs,
maxNrOfPDSCHs,
maxNrOfPUSCHs,
maxNrOfPDSCHSets,
maxNrOfPUSCHSets,
maxNrOfSCCPCHs,
maxNrOfULTSS,
maxNrOfUSCHs,
maxAPSigNum,
maxCPCHCell,
maxFACHCell,
maxNoofLen,
maxRACHCell,
maxPCPCHCell,
maxPRACHCell,
maxSCCPCHCell,
maxSCPICHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxIB,
maxIBSEG
FROM NBAP-Constants;

```

/\* partly omitted \*/

```

*****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

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

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY reject          TYPE NodeB-CommunicationContextID
      PRESENCE mandatory }|
    { ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD          CRITICALITY reject          TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD
      PRESENCE optional }|
    { ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD          CRITICALITY reject          TYPE DL-CCTrCH-InformationList-RL-AdditionRqstTDD
      PRESENCE optional }|
    { ID id-RL-Information-RL-AdditionRqstTDD          CRITICALITY reject          TYPE RL-Information-RL-AdditionRqstTDD
      PRESENCE mandatory },
    ...
}

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

UL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRqstTDD

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

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD          CRITICALITY notify          EXTENSION UL-DPCH-InformationItem-LCR-RL-
      AdditionRqstTDD          PRESENCE optional }
}

UL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}

UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRqstTDD          CRITICALITY notify          TYPE UL-DPCH-InformationItem-RL-AdditionRqstTDD
      PRESENCE optionalmandatory }
}

```



```

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

UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRqstTDD

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dL-DPCH-Information      DL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD PRESENCE optional }
}

DL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}

DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE mandatory }
}

DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset           TDD-DPCHOffset,
    dL-Timeslot-Information   DL-Timeslot-Information,
    iE-Extensions            ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    c-ID                     C-ID,
    frameOffset              FrameOffset,
    diversityControlField    DiversityControlField,
}

```

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initial-DL-Transmission-Power      DL-Power      OPTIONAL,
maximumDL-Power                    DL-Power      OPTIONAL,
minimumDL-Power                    DL-Power      OPTIONAL,
timeslotISCPInfoList               TimeslotISCPInfoList-RL-AdditionRqstTDD OPTIONAL,
iE-Extensions                       ProtocolExtensionContainer { { RL-information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
...
}

RL-information-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-TIMESLOTISCP-InformationList-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION TIMESLOTISCP-InformationList-
      LCR-RL-AdditionRqstTDD PRESENCE optional }
}

TimeslotISCPInfoList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF TimeslotISCPInfoItem-RL-AdditionRqstTDD

TimeslotISCPInfoItem-RL-AdditionRqstTDD ::= SEQUENCE {
    timeSlot          TimeSlot,
    dL-TimeslotISCP   DL-TimeslotISCP,
    iE-Extensions     ProtocolExtensionContainer { {TimeslotISCPInfoItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

TimeslotISCPInfoItem-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tdd-DPCHOffset        TDD-DPCHOffset,
    uL-TimeslotLCR-Information  UL-TimeslotLCR-Information,
    iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tdd-DPCHOffset        TDD-DPCHOffset,
    dL-TimeslotLCR-Information  DL-TimeslotLCR-Information,
    iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TIMESLOTISCP-InformationList-LCR-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF TimeslotISCPInfoList-RL-AdditionRqstTDD

```

```
TimeslotISCPInfoList-RL-AdditionRqstTDD ::= SEQUENCE {  
    timeSlotLCR                TimeSlotLCR,  
    dL-TimeslotISCP            DL-TimeslotISCP,  
    iE-Extensions              ProtocolExtensionContainer { {TimeslotISCPInfoList-LCR-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,  
    ...  
}
```

```
TimeslotISCPInfoList-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```
/* partly omitted */
```

```

/* partly omitted */
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

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

RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-NodeB-CommunicationContextID          CRITICALITY    reject      TYPE NodeB-CommunicationContextID
      PRESENCE mandatory } |
    { ID      id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE UL-CCTrCH-InformationModifyList-RL-
ReconfPrepTDD          PRESENCE optional } |
    { ID      id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE UL-CCTrCH-InformationDeleteList-RL-
ReconfPrepTDD          PRESENCE optional } |
    { ID      id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DL-CCTrCH-InformationModifyList-RL-
ReconfPrepTDD          PRESENCE optional } |
    { ID      id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DL-CCTrCH-InformationDeleteList-RL-
ReconfPrepTDD          PRESENCE optional } |
    { ID      id-TDD-DCHs-to-Modify          CRITICALITY    reject      TYPE TDD-DCHs-to-Modify          PRESENCE optional
    } |
    { ID      id-DCHs-to-Add-TDD          CRITICALITY    reject      TYPE DCH-TDD-Information          PRESENCE optional
    } |
    { ID      id-DCH-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DCH-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-DSCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-DSCHs-to-Add-TDD          CRITICALITY    reject      TYPE DSCH-TDD-Information          PRESENCE optional } |
    { ID      id-DSCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-USCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-USCH-Information-Add          CRITICALITY    reject      TYPE USCH-Information          PRESENCE optional } |
    { ID      id-USCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
      PRESENCE optional } |
    { ID      id-RL-Information-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE RL-Information-RL-ReconfPrepTDD
      PRESENCE optional },
    ...
}

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

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

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject  EXTENSION UL-DPCH-InformationAddItem-RL-ReconfPrepTDD
PRESENCE OPTIONAL }
}

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

UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject  TYPE UL-DPCH-InformationAddItem-RL-ReconfPrepTDD  PRESENCE
    mandatory }
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tdd-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-Information  UL-Timeslot-Information,
    iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD }}

UL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject  TYPE UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD
PRESENCE mandatory }
}

UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tdd-DPCHOffset        TDD-DPCHOffset,
}

```

```

    uL-Timeslot-InformationLCR          UL-Timeslot-InformationLCR,
    iE-Extensions                      ProtocolExtensionContainer { { UL-DPCHLCR--InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

```

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCS                                OPTIONAL,
    tFCI-Coding       TFCI-Coding                        OPTIONAL,
    punctureLimit     PunctureLimit                      OPTIONAL,
    ul-DPCH-InformationAddList  UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD  OPTIONAL,
    ul-DPCH-InformationModifyList  UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
    ul-DPCH-InformationDeleteList  UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-UL-DPCH-LCR-InformationModify-AddList  CRITICALITY reject  EXTENSION  UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
    PRESENCE optional }
}

```

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD } }

```

UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject  TYPE UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
}

```

```

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tdd-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-Information  UL-Timeslot-Information,
    iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD  CRITICALITY reject  EXTENSION  UL-Timeslot-InformationModify-ModifyList-RL-
    ReconfPrepTDD  PRESENCE optional }
}

```

```

}

UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

UL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  uL-Timeslot-InformationLCR UL-Timeslot-InformationLCR,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
  ...
}

UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-DPCHOffset TDD-DPCHOffset OPTIONAL,
  uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
  ...
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {

```

```

    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType    OPTIONAL,
    tFCI-Presence           TFCI-Presence                OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD

UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR            TimeSlotLCR,
    midambleShiftAndBurstTypeLCR MidambleShiftAndBurstTypeLCR    OPTIONAL,
    tFCI-Presence          TFCI-Presence                OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLRCR UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLRCR    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLRCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLRCR

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLRCR ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLRCR-ExtIEs } }
    OPTIONAL,
    ...
}

```



```

}
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD    CRITICALITY reject        TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD                PRESENCE mandatory }
}

UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

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

UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

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

```

```

}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
  { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD  CRITICALITY reject      EXTENSION      DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }
}

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

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

CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject      TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD      PRESENCE
  mandatory }
}

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHOffset        TDD-DPCHOffset,
  dL-Timeslot-Information  DL-Timeslot-Information,
  iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }      OPTIONAL,
  ...
}

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject      TYPE DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD
  PRESENCE mandatory }
}

DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHOffset        TDD-DPCHOffset,
  dL-Timeslot-InformationLCR  DL-Timeslot-InformationLCR,
}

```

```

iE-Extensions ProtocolExtensionContainer { { DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
...
}
DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

```
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
```

```
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS OPTIONAL,
  tFCI-Coding TFCI-Coding OPTIONAL,
  punctureLimit PunctureLimit OPTIONAL,
  cCTrCH-TPCList CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL,
  dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL,
  dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
  dl-DPCH-InformationDeleteList DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
  OPTIONAL,
  ...
}

```

```
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
  { ID id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-LCR-InformationAddItem-RL-
  ReconfPrepTDD PRESENCE optional }
}

```

```
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
```

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

```

```
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD } }
```

```
DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
  PRESENCE mandatory }
}

```

```
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
}

```

```

    tdd-DPCHOffset          TDD-DPCHOffset,
    dL-Timeslot-Information DL-Timeslot-Information,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD
}}

DL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-LCR-InformationModify-AddItem-RL-
ReconfPrepTDD          PRESENCE mandatory }
}

DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-DPCHOffset            TDD-DPCHOffset,
    dL-Timeslot-InformationLCR DL-Timeslot-InformationLCR,
    iE-Extensions             ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD          PRESENCE mandatory }
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tdd-DPCHOffset            TDD-DPCHOffset            OPTIONAL,
    dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD          OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
    { ID id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-Timeslot-LCR-
InformationModify-ModifyList-RL-ReconfPrepTDD PRESENCE optional }
}

```

DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD

```

DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence            TFCI-Presence OPTIONAL,
    dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

```

DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD

```

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftAndBurstTypeLCR MidambleShiftAndBurstTypeLCR OPTIONAL,
    tFCI-Presence            TFCI-Presence OPTIONAL,
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

```

DL-LCR-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {  
  dPCH-ID DPCH-ID,  
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR OPTIONAL,  
  iE-Extensions ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }  
  OPTIONAL,  
  ...  
}

DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD } }

DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {  
  { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD PRESENCE mandatory }  
}

DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {  
  dPCH-ID DPCH-ID,  
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }  
  OPTIONAL,  
  ...  
}

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

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

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

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {

```

    dCH-ID
    iE-Extensions
    ...
}

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

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS                    OPTIONAL,
    toAWE                  ToAWE                    OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

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

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

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD

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

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

RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    maxDL-Power          DL-Power OPTIONAL,
    minDL-Power          DL-Power OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

/* partly omitted */
-- *****
--
-- DL POWER TIMESLOT CONTROL REQUEST TDD
--
-- *****

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

DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID          CRITICALITY ignore          TYPE          NodeB-CommunicationContextID          PRESENCE mandatory
    } |
    { ID id-TimeslotISCPInfoList-DL-PC-RqstTDD    CRITICALITY ignore          TYPE          TimeslotISCPInfoList-DL-PC-RqstTDD    PRESENCE
    | optionalmandatory },
    ...
}

TimeslotISCPInfoList-DL-PC-RqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF TimeslotISCPInfoItem-DL-PC-RqstTDD

TimeslotISCPInfoItem-DL-PC-RqstTDD ::= SEQUENCE {

```



```

    rL-ID                RL-ID,
    timeSlot             TimeSlot,
    dL-TimeslotISCP     DL-TimeslotISCP,
    iE-Extensions       ProtocolExtensionContainer { {TimeslotISCPInfoItem-DL-PC-RqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

TimeslotISCPInfoItem-DL-PC-RqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-PowerTimeslotControlRequest-Extensions  NBAP-PROTOCOL-EXTENSION ::= {
    ...
    { ID id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD          CRITICALITY ignore          EXTENSION TimeslotISCPInfoList-LCR-DL-PC-RqstTDD          PRESENCE
optional }
}

TimeslotISCPInfoList-LCR-DL-PC-RqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCR)) OF TimeslotISCPInfoItem-DL-PC-RqstTDD

TimeslotISCPInfoItem-LCR-DL-PC-RqstTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    timeSlotLCR          TimeSlotLCR,
    dL-TimeslotISCP     DL-TimeslotISCP,
    iE-Extensions       ProtocolExtensionContainer { {TimeslotISCPInfoItem-LCR-DL-PC-RqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

TimeslotISCPInfoItem-LCR-DL-PC-RqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

/* partly omitted */

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

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

PhysicalSharedChannelReconfigurationRequestTDD-IEs  NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject          TYPE C-ID          PRESENCE
mandatory } |
    { ID id-SFN          CRITICALITY reject          TYPE SFN          PRESENCE
optional} |
}

```

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```

    { ID id-PDSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCHSets-DeleteList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PUSCHSets-AddList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-AddList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PUSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-ModifyList-PSCH-ReconfRqst PRESENCE
      optional } |
    { ID id-PUSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst PRESENCE
      optional },
    ...
}

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID PDSCHSet-ID,
    pDSCH-InformationList PDSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-AddInformation-LCR-PSCH-ReconfRqst PRESENCE
    optional}
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-AddItem-PSCH-ReconfRqst PRESENCE
      mandatory}
}

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    dl-Timeslot-InformationAddList-PSCH-ReconfRqst DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

```
DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    dl-Code-InformationAddList-PSCH-ReconfRqst DL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}
```

```
DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

```
DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                PDSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}
```

```
DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

PDSCH-AddInformation-LCR-PSCH-ReconfRqst ::= ProtocolIE-Single-Container { { PDSCH-AddInformation-LCR-AddListIEs-PSCH-ReconfRqst } }

PDSCH-AddInformation-LCR-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {  
{ ID id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst  
PRESENCE optional}  
}

```
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {  

repetitionPeriod          RepetitionPeriod,  

repetitionLength          RepetitionLength,  

tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,  

dl-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,  

iE-Extensions            ProtocolExtensionContainer { {PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,  

...  

}
```

```
PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  

...  

}
```

DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

```
DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {  

timeSlotLCR                TimeSlotLCR,
```

```

    tFCI-Presence                TFCI-Presence,
    dL-Code-InformationAddList-LCR-PSCH-ReconfRqst    DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                    PDSCH-ID,
    tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
    iE-Extensions                ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    pDSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst,
    iE-Extensions                ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst    CRITICALITY reject    EXTENSION    PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst
    PRESENCE    optional}
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst    CRITICALITY reject    TYPE    PDSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE    mandatory}
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod            RepetitionPeriod            OPTIONAL,
    repetitionLength            RepetitionLength            OPTIONAL,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset    OPTIONAL,
    dL-Timeslot-InformationModifyList-PSCH-ReconfRqst    DL-Timeslot-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

```

```

}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot                TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  tFCI-Presence            TFCI-Presence OPTIONAL,
  dL-Code-InformationModifyList-PSCH-ReconfRqst DL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions            ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-
ReconfRqst PRESENCE mandatory}
}

PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
  ...
}

PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...

```

```

}

DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR OPTIONAL,
    tFCI-Presence              TFCI-Presence OPTIONAL,
    dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                   PDSCH-ID,
    tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
    iE-Extensions              ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID               PDSCHSet-ID,
    iE-Extensions              ProtocolExtensionContainer { { PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID               PUSCHSet-ID,
    pUSCH-InformationList     PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

```

```

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
  {ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-AddInformation-LCR-PSCH-ReconfRqst PRESENCE
  optional}
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRqst PRESENCE
  mandatory}
}

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  ul-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tFCI-Presence TFCI-Presence,
  ul-Code-InformationAddList-PSCH-ReconfRqst UL-Code-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID PUSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
PUSCH-AddInformation-LCR-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-AddInformation-LCR-AddListIEs-PSCH-ReconfRqst }}
PUSCH-AddInformation-LCR-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
  PRESENCE optional}
}
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  tFCI-Presence TFCI-Presence,
  uL-Code-InformationAddList-LCR-PSCH-ReconfRqst UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID PUSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}
UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

```



```

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst
PRESENCE optional}
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
    PRESENCE mandatory}
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod           RepetitionPeriod                OPTIONAL,
    repetitionLength           RepetitionLength                OPTIONAL,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset      OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst          UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                   TimeSlot,
    midambleShiftAndBurstType  MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence              TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst          UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,

```

```

    tdd-ChannelisationCode          TDD-ChannelisationCode,
    iE-Extensions                    ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst ::= ProtocolIE-Single-Container { { PUSCH-ModifyInformation-LCR-ModifyListIEs-PSCH-ReconfRqst } }

PUSCH-ModifyInformation-LCR-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst          CRITICALITY reject          TYPE          PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-
ReconfRqst          PRESENCE          optional}
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod          OPTIONAL,
    repetitionLength          RepetitionLength          OPTIONAL,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset  OPTIONAL,
    uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst          UL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst          OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs } }
OPTIONAL,
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR          TimeSlotLCR,
    midambleShiftLCR    MidambleShiftLCR,
    tFCI-Presence        TFCI-Presence          OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst          UL-Code-InformationModifyList-PSCH-ReconfRqst          OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID          PUSCH-ID,
    tdd-ChannelisationCodeLCR          TDD-ChannelisationCodeLCR,
    iE-Extensions                    ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }          OPTIONAL,
    ...
}

```

```

}
UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst
PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    PUSCHSet-ID PUSCHSet-ID,
    iE-Extensions ProtocolExtensionContainer { {PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}
PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
/* partly omitted */

```

### 9.3.6 Constant Definitions

```

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

NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes;

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

id-audit ProcedureCode ::= 0

```

id-auditRequired	ProcedureCode ::= 1
id-blockResource	ProcedureCode ::= 2
id-cellDeletion	ProcedureCode ::= 3
id-cellReconfiguration	ProcedureCode ::= 4
id-cellSetup	ProcedureCode ::= 5
id-commonMeasurementFailure	ProcedureCode ::= 6
id-commonMeasurementInitiation	ProcedureCode ::= 7
id-commonMeasurementReport	ProcedureCode ::= 8
id-commonMeasurementTermination	ProcedureCode ::= 9
id-commonTransportChannelDelete	ProcedureCode ::= 10
id-commonTransportChannelReconfigure	ProcedureCode ::= 11
id-commonTransportChannelSetup	ProcedureCode ::= 12
id-compressedModeCommand	ProcedureCode ::= 14
id-dedicatedMeasurementFailure	ProcedureCode ::= 16
id-dedicatedMeasurementInitiation	ProcedureCode ::= 17
id-dedicatedMeasurementReport	ProcedureCode ::= 18
id-dedicatedMeasurementTermination	ProcedureCode ::= 19
id-downlinkPowerControl	ProcedureCode ::= 20
id-downlinkPowerTimeslotControl	ProcedureCode ::= 38
id-errorIndicationForCommon	ProcedureCode ::= 35
id-errorIndicationForDedicated	ProcedureCode ::= 21
id-physicalSharedChannelReconfiguration	ProcedureCode ::= 37
id-privateMessageForCommon	ProcedureCode ::= 36
id-privateMessageForDedicated	ProcedureCode ::= 22
id-radioLinkAddition	ProcedureCode ::= 23
id-radioLinkDeletion	ProcedureCode ::= 24
id-radioLinkFailure	ProcedureCode ::= 25
id-radioLinkPreemption	ProcedureCode ::= 39
id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSS	INTEGER ::= 15
<u>maxNrOfDLTSSLCR</u>	<u>INTEGER ::= 6</u>
maxNrOfDLCodes	INTEGER ::= 8
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
maxNrOfCPCHs	INTEGER ::= 4
maxNrOfPCPCHs	INTEGER ::= 64

```

maxNrOfDCHs                INTEGER ::= 128
maxNrOfDSCHs               INTEGER ::= 32
maxNrOfFACHs               INTEGER ::= 8
maxNrOfCCTrCHs            INTEGER ::= 16
maxNrOfPDSCHs              INTEGER ::= 256
maxNrOfPUSCHs              INTEGER ::= 256
maxNrOfPDSCHSets           INTEGER ::= 256
maxNrOfPUSCHSets           INTEGER ::= 256
maxNrOfULTSs               INTEGER ::= 15
maxNrOfUSCHs               INTEGER ::= 32
maxAPSigNum                INTEGER ::= 16
maxNrOfSlotFormatsPRACH    INTEGER ::= 8
maxCellInNodeB             INTEGER ::= 256
maxCCPinNodeB              INTEGER ::= 256
maxCPCHCell                INTEGER ::= maxNrOfCPCHs
maxCTFC                    INTEGER ::= 16777215
maxLocalCellInNodeB        INTEGER ::= maxCellInNodeB
maxNoofLen                 INTEGER ::= 7
maxRACHCell                INTEGER ::= maxPRACHCell
maxPRACHCell               INTEGER ::= 16
maxPCPCHCell               INTEGER ::= 64
maxSCCPCHCell              INTEGER ::= 32
maxSCPICHCell              INTEGER ::= 32
maxTTI-count               INTEGER ::= 4
maxIBSEG                   INTEGER ::= 16
maxIB                       INTEGER ::= 64
maxFACHCell                INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching            INTEGER ::= 256
maxCodeNrComp-1            INTEGER ::= 256
maxNrOfCodeGroups          INTEGER ::= 256
maxNrOfTFCIGroups          INTEGER ::= 256
maxNrOfTFCI1Combs          INTEGER ::= 512
maxNrOfTFCI2Combs          INTEGER ::= 1024
maxNrOfTFCI2Combs-1        INTEGER ::= 1023
maxNrOfSF                   INTEGER ::= 8
maxTGPS                    INTEGER ::= 6
maxCommunicationContext     INTEGER ::= 1048575

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

id-AICH-Information          ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1
id-BCH-Information          ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 8
id-BCCH-ModificationTime    ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator ProtocolIE-ID ::= 10
id-Cause                    ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp ProtocolIE-ID ::= 15

```

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id-CCP-InformationItem-ResourceStatusInd  
id-Cell-InformationItem-AuditRsp  
id-Cell-InformationItem-ResourceStatusInd  
id-Cell-InformationList-AuditRsp  
id-CellParameterID  
id-CFN  
id-C-ID  
id-CommonMeasurementObjectType-CM-Rprt  
id-CommonMeasurementObjectType-CM-Rqst  
id-CommonMeasurementObjectType-CM-Rsp  
id-CommonMeasurementType  
id-CommonPhysicalChannelID  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD  
id-CommonTransportChannelType-CTCH-ReconfRqstTDD  
id-CommunicationControlPortID  
id-ConfigurationGenerationID  
id-CRNC-CommunicationContextID  
id-CriticalityDiagnostics  
id-DCHs-to-Add-FDD  
id-DCH-AddList-RL-ReconfPrepTDD  
id-DCHs-to-Add-TDD  
id-DCH-DeleteList-RL-ReconfPrepFDD  
id-DCH-DeleteList-RL-ReconfPrepTDD  
id-DCH-DeleteList-RL-ReconfRqstFDD  
id-DCH-DeleteList-RL-ReconfRqstTDD  
id-DCH-FDD-Information  
id-DCH-TDD-Information  
id-DCH-InformationResponse  
id-FDD-DCHs-to-Modify  
id-TDD-DCHs-to-Modify  
id-DCH-ModifyList-RL-ReconfRqstTDD  
id-DedicatedMeasurementObjectType-DM-Rprt  
id-DedicatedMeasurementObjectType-DM-Rqst  
id-DedicatedMeasurementObjectType-DM-Rsp  
id-DedicatedMeasurementType  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-DL-DPCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-Information-RL-ReconfPrepFDD  
id-DL-DPCH-Information-RL-ReconfRqstFDD  
id-DL-DPCH-Information-RL-SetupRqstFDD  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst  
id-DLReferencePower  
id-DLReferencePowerList-DL-PC-Rqst  
id-DSCH-AddItem-RL-ReconfPrepFDD  
id-DSCH-AddItem-RL-ReconfRqstFDD  
id-DSCHs-to-Add-FDD  
id-DSCH-DeleteItem-RL-ReconfPrepFDD  
id-DSCH-DeleteItem-RL-ReconfRqstFDD  
id-DSCH-DeleteList-RL-ReconfPrepFDD

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ProtocolIE-ID ::= 16  
ProtocolIE-ID ::= 17  
ProtocolIE-ID ::= 18  
ProtocolIE-ID ::= 19  
ProtocolIE-ID ::= 23  
ProtocolIE-ID ::= 24  
ProtocolIE-ID ::= 25  
ProtocolIE-ID ::= 31  
ProtocolIE-ID ::= 32  
ProtocolIE-ID ::= 33  
ProtocolIE-ID ::= 34  
ProtocolIE-ID ::= 35  
ProtocolIE-ID ::= 36  
ProtocolIE-ID ::= 37  
ProtocolIE-ID ::= 38  
ProtocolIE-ID ::= 40  
ProtocolIE-ID ::= 43  
ProtocolIE-ID ::= 44  
ProtocolIE-ID ::= 45  
ProtocolIE-ID ::= 48  
ProtocolIE-ID ::= 49  
ProtocolIE-ID ::= 50  
ProtocolIE-ID ::= 52  
ProtocolIE-ID ::= 53  
ProtocolIE-ID ::= 54  
ProtocolIE-ID ::= 55  
ProtocolIE-ID ::= 56  
ProtocolIE-ID ::= 57  
ProtocolIE-ID ::= 59  
ProtocolIE-ID ::= 62  
ProtocolIE-ID ::= 63  
ProtocolIE-ID ::= 65  
ProtocolIE-ID ::= 67  
ProtocolIE-ID ::= 68  
ProtocolIE-ID ::= 69  
ProtocolIE-ID ::= 70  
ProtocolIE-ID ::= 72  
ProtocolIE-ID ::= 73  
ProtocolIE-ID ::= 76  
ProtocolIE-ID ::= 77  
ProtocolIE-ID ::= 79  
ProtocolIE-ID ::= 81  
ProtocolIE-ID ::= 82  
ProtocolIE-ID ::= 83  
ProtocolIE-ID ::= 84  
ProtocolIE-ID ::= 85  
ProtocolIE-ID ::= 86  
ProtocolIE-ID ::= 87  
ProtocolIE-ID ::= 88  
ProtocolIE-ID ::= 89  
ProtocolIE-ID ::= 91  
ProtocolIE-ID ::= 92  
ProtocolIE-ID ::= 93

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id-DSCH-ID  
id-DSCHs-to-Add-TDD  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  
id-DSCH-InformationResponse  
id-DSCH-FDD-Information  
id-DSCH-TDD-Information  
id-DSCH-ModifyItem-RL-ReconfPrepFDD  
id-DSCH-ModifyItem-RL-ReconfRqstFDD  
id-DSCH-ModifyList-RL-ReconfPrepFDD  
id-End-Of-Audit-Sequence-Indicator  
id-FACH-Information  
id-FACH-InformationItem-ResourceStatusInd  
id-FACHItem-CTCH-SetupRsp  
id-FACH-ParametersList-CTCH-ReconfRqstTDD  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD  
id-IndicationType-ResourceStatusInd  
id-Local-Cell-ID  
id-Local-Cell-Group-InformationItem-AuditRsp  
id-Local-Cell-Group-InformationItem-ResourceStatusInd  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Local-Cell-Group-InformationList-AuditRsp  
id-Local-Cell-InformationItem-AuditRsp  
id-Local-Cell-InformationItem-ResourceStatusInd  
id-Local-Cell-InformationItem2-ResourceStatusInd  
id-Local-Cell-InformationList-AuditRsp  
id-AdjustmentPeriod  
id-MaxAdjustmentStep  
id-MaximumTransmissionPower  
id-MeasurementFilterCoefficient  
id-MeasurementID  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  
id-NodeB-CommunicationContextID  
id-P-CCPCH-Information  
id-P-CCPCH-InformationItem-ResourceStatusInd  
id-P-CPICH-Information  
id-P-CPICH-InformationItem-ResourceStatusInd  
id-P-SCH-Information  
id-PCCPCH-Information-Cell-ReconfRqstTDD  
id-PCCPCH-Information-Cell-SetupRqstTDD  
id-PCH-Parameters-CTCH-ReconfRqstTDD  
id-PCH-ParametersItem-CTCH-SetupRqstFDD  
id-PCH-ParametersItem-CTCH-SetupRqstTDD  
id-PCH-Information  
id-PD  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PDSCHSets-AddList-PSCH-ReconfRqst  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst  
id-PICH-Information  
id-PICH-Parameters-CTCH-ReconfRqstTDD

**264**

ProtocolIE-ID ::= 95  
ProtocolIE-ID ::= 96  
ProtocolIE-ID ::= 98  
ProtocolIE-ID ::= 100  
ProtocolIE-ID ::= 105  
ProtocolIE-ID ::= 106  
ProtocolIE-ID ::= 107  
ProtocolIE-ID ::= 108  
ProtocolIE-ID ::= 109  
ProtocolIE-ID ::= 112  
ProtocolIE-ID ::= 113  
ProtocolIE-ID ::= 116  
ProtocolIE-ID ::= 117  
ProtocolIE-ID ::= 118  
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ProtocolIE-ID ::= 5  
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ProtocolIE-ID ::= 155  
ProtocolIE-ID ::= 156  
ProtocolIE-ID ::= 157  
ProtocolIE-ID ::= 158  
ProtocolIE-ID ::= 160  
ProtocolIE-ID ::= 161  
ProtocolIE-ID ::= 162  
ProtocolIE-ID ::= 163  
ProtocolIE-ID ::= 164  
ProtocolIE-ID ::= 165  
ProtocolIE-ID ::= 166  
ProtocolIE-ID ::= 168

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id-PowerAdjustmentType  
id-PRACH-Information  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD  
id-PrimarySCH-Information-Cell-ReconfRqstFDD  
id-PrimarySCH-Information-Cell-SetupRqstFDD  
id-PrimaryScramblingCode  
id-ProcedureScopeType-DL-PC-Rqst  
id-SCH-Information-Cell-ReconfRqstTDD  
id-SCH-Information-Cell-SetupRqstTDD  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PUSCHSets-AddList-PSCH-ReconfRqst  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst  
id-RACH-Information  
id-RACHItem-CTCH-SetupRsp  
id-RACH-ParametersItem-CTCH-SetupRqstFDD  
id-RACH-ParameterItem-CTCH-SetupRqstTDD  
id-ReportCharacteristics  
id-Reporting-Object-RL-FailureInd  
id-Reporting-Object-RL-RestoreInd  
id-RL-ID  
id-RL-InformationItem-DM-Rprt  
id-RL-InformationItem-DM-Rqst  
id-RL-InformationItem-DM-Rsp  
id-RL-InformationItem-RL-AdditionRqstFDD  
id-RL-informationItem-RL-DeletionRqst  
id-RL-InformationItem-RL-FailureInd  
id-RL-InformationItem-RL-PreemptRequiredInd  
id-RL-InformationItem-RL-ReconfPrepFDD  
id-RL-InformationItem-RL-ReconfRqstFDD  
id-RL-InformationItem-RL-RestoreInd  
id-RL-InformationItem-RL-SetupRqstFDD  
id-RL-InformationList-RL-AdditionRqstFDD  
id-RL-informationList-RL-DeletionRqst  
id-RL-InformationList-RL-PreemptRequiredInd  
id-RL-InformationList-RL-ReconfPrepFDD  
id-RL-InformationList-RL-ReconfRqstFDD  
id-RL-InformationList-RL-SetupRqstFDD  
id-RL-InformationResponseItem-RL-AdditionRspFDD  
id-RL-InformationResponseItem-RL-ReconfReady  
id-RL-InformationResponseItem-RL-ReconfRsp  
id-RL-InformationResponseItem-RL-SetupRspFDD  
id-RL-InformationResponseList-RL-AdditionRspFDD  
id-RL-InformationResponseList-RL-ReconfReady  
id-RL-InformationResponseList-RL-ReconfRsp  
id-RL-InformationResponseList-RL-SetupRspFDD  
id-RL-InformationResponse-RL-AdditionRspTDD  
id-RL-InformationResponse-RL-SetupRspTDD  
id-RL-Information-RL-AdditionRqstTDD

**265**

ProtocolIE-ID ::= 169  
ProtocolIE-ID ::= 170  
ProtocolIE-ID ::= 175  
ProtocolIE-ID ::= 176  
ProtocolIE-ID ::= 177  
ProtocolIE-ID ::= 178  
ProtocolIE-ID ::= 179  
ProtocolIE-ID ::= 180  
ProtocolIE-ID ::= 181  
ProtocolIE-ID ::= 182  
ProtocolIE-ID ::= 183  
ProtocolIE-ID ::= 184  
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ProtocolIE-ID ::= 237  
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ProtocolIE-ID ::= 221  
ProtocolIE-ID ::= 222  
ProtocolIE-ID ::= 223  
ProtocolIE-ID ::= 224  
ProtocolIE-ID ::= 225  
ProtocolIE-ID ::= 226  
ProtocolIE-ID ::= 227



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id-RL-Information-RL-ReconfRgstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRgstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRgstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRgstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	ProtocolIE-ID ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	ProtocolIE-ID ::= 273
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRgstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRgstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRgstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRgstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	ProtocolIE-ID ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	ProtocolIE-ID ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302

**266**

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id-USCH-Information-AddList-RL-ReconfRqstTDD  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD  
id-USCH-Information-DeleteList-RL-ReconfRqstTDD  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD  
id-USCH-Information-ModifyList-RL-ReconfRqstTDD  
id-USCH-InformationResponse  
id-USCH-Information  
id-Active-Pattern-Sequence-Information  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-AdjustmentRatio  
id-AP-AICH-Information  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-CauseLevel-PSCH-ReconfFailureTDD  
id-CauseLevel-RL-AdditionFailureFDD  
id-CauseLevel-RL-AdditionFailureTDD  
id-CauseLevel-RL-ReconfFailure  
id-CauseLevel-RL-SetupFailureFDD  
id-CauseLevel-RL-SetupFailureTDD  
id-CDCA-ICH-Information  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-Closed-Loop-Timing-Adjustment-Mode  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD  
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD  
id-CPCH-Information  
id-CPCH-Parameters-CTCH-SetupRsp  
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-DL-TPC-Pattern01Count  
id-DPCHConstant  
id-FACH-ParametersList-CTCH-SetupRsp  
id-Limited-power-increase-information-Cell-SetupRqstFDD  
id-PCH-Parameters-CTCH-SetupRsp  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD  
id-PCPCH-Information  
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD  
id-PRACHConstant  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-PUSCHConstant  
id-RACH-Parameters-CTCH-SetupRsp  
id-Synchronisation-Configuration-Cell-ReconfRqst

**267**

ProtocolIE-ID ::= 303  
ProtocolIE-ID ::= 304  
ProtocolIE-ID ::= 305  
ProtocolIE-ID ::= 306  
ProtocolIE-ID ::= 307  
ProtocolIE-ID ::= 309  
ProtocolIE-ID ::= 310  
ProtocolIE-ID ::= 315  
ProtocolIE-ID ::= 316  
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ProtocolIE-ID ::= 379  
ProtocolIE-ID ::= 380  
ProtocolIE-ID ::= 381  
ProtocolIE-ID ::= 383  
ProtocolIE-ID ::= 384  
ProtocolIE-ID ::= 385  
ProtocolIE-ID ::= 393

id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403
id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 404
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414
id-ResetIndicator	ProtocolIE-ID ::= 416
id-TFCI2-Bearer-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 417
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD	ProtocolIE-ID ::= 418
id-TFCI2-BearerInformationResponse	ProtocolIE-ID ::= 419
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfoList-DL-PC-RqstTDD	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::=
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::=
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD	ProtocolIE-ID ::=
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::=
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::=
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::=
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::=

END

## CHANGE REQUEST

⌘ **25.435 CR 037** ⌘ rev **3** ⌘ Current version: **3.5.0** ⌘

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

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

<b>Title:</b>	⌘ The impacts on TS 25.435 for supporting low chip rate TDD		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ LCRTDD-lublur	<b>Date:</b>	⌘ Feb 2001
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-4
	<i>Use one of the following categories:</i> <b>F</b> (essential correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (Addition of feature), <b>C</b> (Functional modification of feature) <b>D</b> (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>REL-4</b> (Release 4) <b>REL-5</b> (Release 5)

<b>Reason for change:</b>	⌘ The current TS is only support 3.84Mcps TDD. It would be support 1.28Mcps TDD in Rel 4. In 1.28Mcps TDD, the uplink synchronisation feature replace or complement the timing advance function which is performed by higher layer interaction in 3.84Mcps. For supporting 1.28Mcps TDD, there would be changed.  Rev2: In the RACH frame, Received SYNC UL Timing Deviation should be added for SRNC to calculate the propagation delay.
<b>Summary of change:</b>	⌘ The parameter "Rx Timing Deviation" is transmitted only in 3.84Mcps TDD. 1.Subcluse 5.7 will be used for 3.84Mcps TDD only. 2.In RACH data frame, Rx Timing Deviation is only used to 3.84Mcps TDD. 3.In USCH data frame, Rx Timing Deviation is only used to 3.84Mcps TDD. Rev2: Received SYNC UL Timing Deviation is added in Figure 15 and corresponding description is added in 6.2.7.x Rev3: Figure 15 is updated.
<b>Consequences if not approved:</b>	⌘ The current TS will not support the REL4 Work Item of LCR TDD option.  Backward compatibility: The CR is backward compatible to Rel99 because the U-plane mode is signalled in the C-plane.

<b>Clauses affected:</b>	⌘ 5.7, 6.2.1, 6.2.6, 6.2.7
<b>Other specs</b>	⌘ <input type="checkbox"/> Other core specifications ⌘

<b>Affected:</b>	<input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	
<b>Other comments:</b>	⌘	At the RAN4#15, the value range and Granularity for the value of Received SYNC UL Timing Deviation was approved. The approved Tdoc is R4-010183. - Range: 0...+256 - Granularity: 1/8 chips

**How to create CRs using this form:**

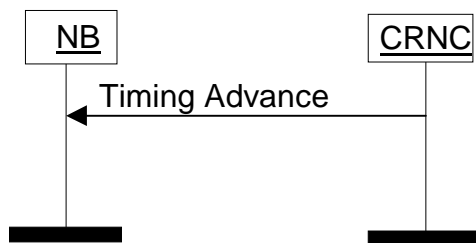
Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

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

## 5.7 Timing Advance [3.84Mcps TDD]

This procedure is used in order to signal to the Node B the adjustment to be performed by the UE in the uplink timing.

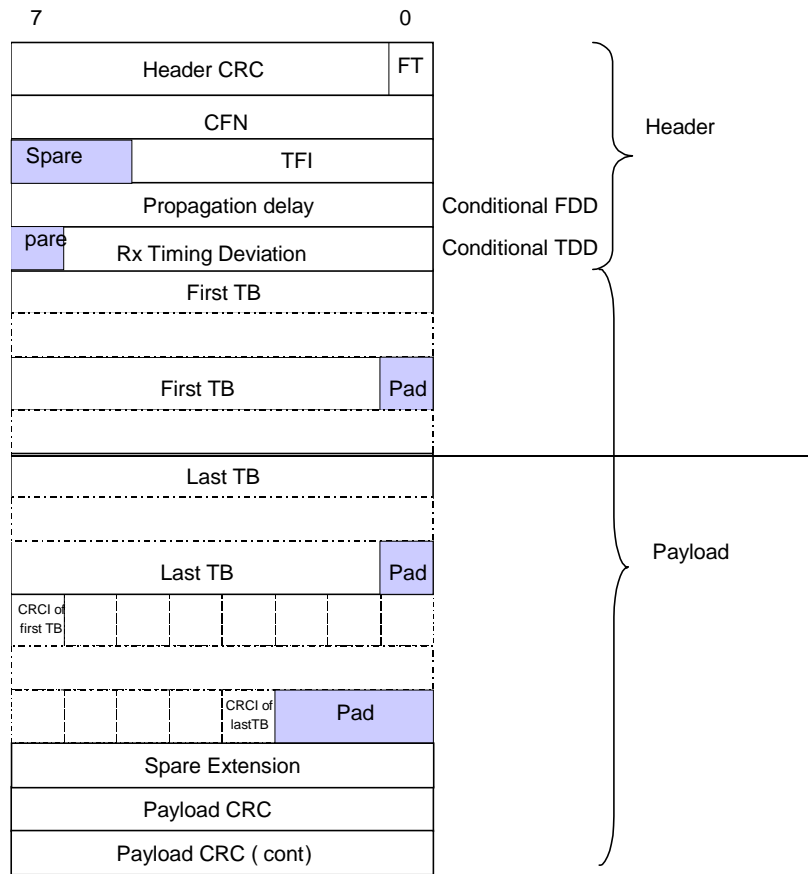
The Node B shall use the CFN and timing adjustment values to adjust its layer 1 to allow for accurate impulse averaging.



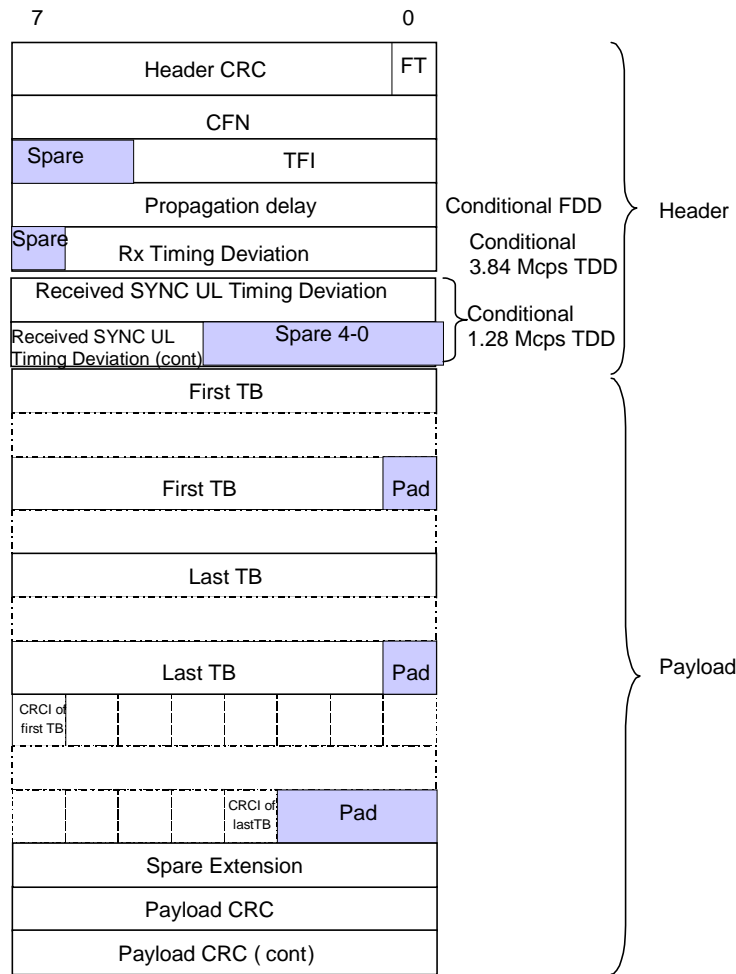
**Figure 12: Timing Advance Signalling**

### 6.2.1 RACH Channels

The RACH Data Frame includes the CFN corresponding to the SFN of the frame in which the payload was received. If the payload was received in several frames, the CFN corresponding to the first Uu frame in which the information was received shall be indicated.







**Figure 15: RACH Data Frame structure**

Propagation delay is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a FDD Cell.

Rx Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 3.84Mcps TDD Cell.

Received SYNC UL Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 1.28Mcps TDD Cell.

### 6.2.6 Uplink Shared Channels [TDD]

USCH Data Frame includes the CFN in which the payload was received. If the payload was received in several frames, the CFN corresponding to the first frame will be indicated.

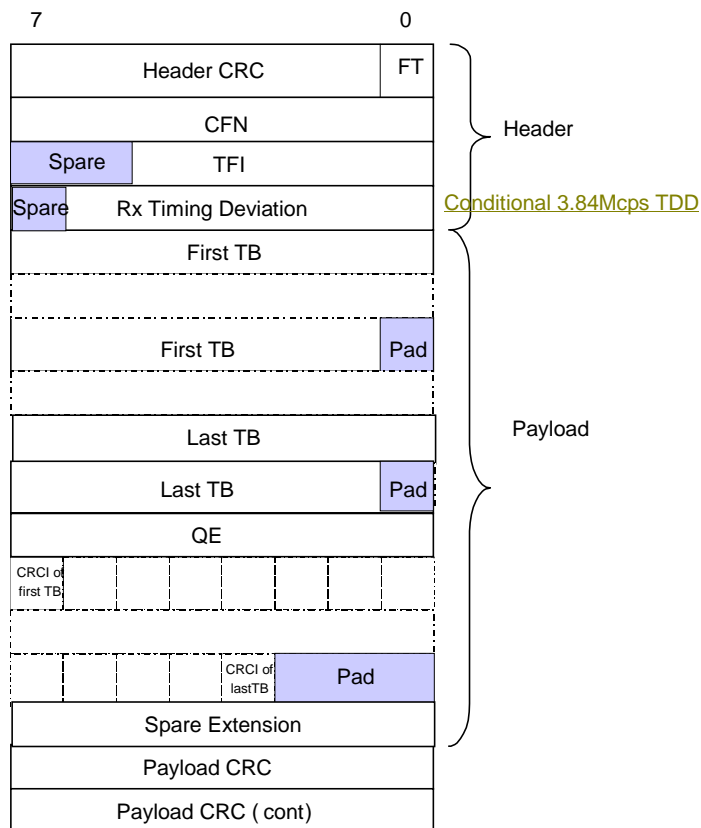
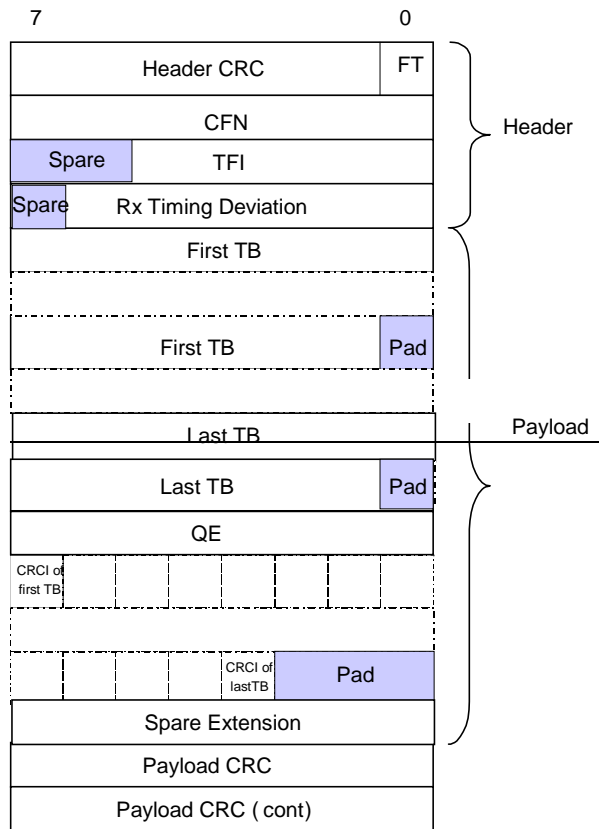


Figure 21: USCH Data Frame structure

**6.2.7.6**      **[3.84Mcps TDD — Rx Timing Deviation]**

**Description:** Measured Rx Timing Deviation as a basis for timing advance. In case the *Timing Advance Applied IE* indicates "No" (see Ref. [6]) in a cell, the Rx Timing Deviation field shall be set to  $N = 0$ .

**Value range:** { -256 ... +256 } chips.

$$\{N*4 - 256\} \text{ chips} \leq \text{RxTiming Deviation} < \{(N+1)*4 - 256\} \text{ chips.}$$

With  $N = 0, 1, \dots, 127$ .

**Granularity:** 4 chips.

**Field length:** 7 bits.

**6.2.7.x**      **[1.28Mcps TDD – Received SYNC UL Timing Deviation]**

**Description:** Measured Received SYNC UL Timing Deviation as a basis for propagation delay.

**Value range:** {0, ..., +256} chips

**Granularity:** 1/8 chips.

**Field length:** 11 bits.