

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

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Title: Agreed CRs to TS 25.423

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num
R3-002030	25.423	145	2	Clarification for Multi-DPCH cases	F	agreed	3.2.0	3.3.0
R3-002077	25.423	146	3	Need to disable Timing advance	F	agreed	3.2.0	3.3.0
R3-001908	25.423	147	1	Shared Channel Signalling correction	F	agreed	3.2.0	3.3.0
R3-001909	25.423	148	1	UE Capabilities transfer SRNC to DRNC	F	agreed	3.2.0	3.3.0
R3-002210	25.423	149	2	Alignment of DPCH parameters with WG1/WG2 in TDD	F	agreed	3.2.0	3.3.0
R3-002312	25.423	151	3	Rules for RNSAP on how IEs become known and clarification on EP knowledge	F	agreed	3.2.0	3.3.0
R3-001904	25.423	152	1	Maximum/minimum DL power settings	F	agreed	3.2.0	3.3.0
R3-002277	25.423	153	2	UL/DL SIR target corrections	F	agreed	3.2.0	3.3.0
R3-001891	25.423	154	1	Power reference point	F	agreed	3.2.0	3.3.0
R3-002124	25.423	156	2	Introduction of DL Codes Not Supported cause value	F	agreed	3.2.0	3.3.0
R3-001922	25.423	157	1	Introduction of a temporary failure: not expired CFN	F	agreed	3.2.0	3.3.0
R3-001895	25.423	158	1	Maximum number of TBs in a TTI	F	agreed	3.2.0	3.3.0
R3-001873	25.423	159	1	Handling of IEs marked with	F	agreed	3.2.0	3.3.0

				"Ignore and Notify" in class 2 procs				
R3-001901	25.423	160	1	Corrections of diversity information	F	agreed	3.2.0	3.3.0
R3-001972	25.423	161	2	Editorial Correction RNSAP	F	agreed	3.2.0	3.3.0
R3-001896	25.423	162	1	Correction the value range of IB_SG_REP in RNSAP	F	agreed	3.2.0	3.3.0
R3-001902	25.423	163	1	Clarification to the RL failure procedure	F	agreed	3.2.0	3.3.0
R3-001976	25.423	164	2	Renaming UL interference	F	agreed	3.2.0	3.3.0
R3-001974	25.423	166	1	compress mode	F	agreed	3.2.0	3.3.0
R3-001916	25.423	167		object identifier value for RNSAP	F	agreed	3.2.0	3.3.0

8.3.1 Radio Link Setup

8.3.1.1 General

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

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

8.3.1.2 Successful Operation

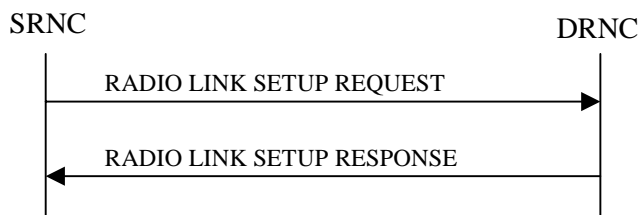


Figure 1: Radio Link Setup procedure: Successful Operation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8.3.1.3 Unsuccessful Operation

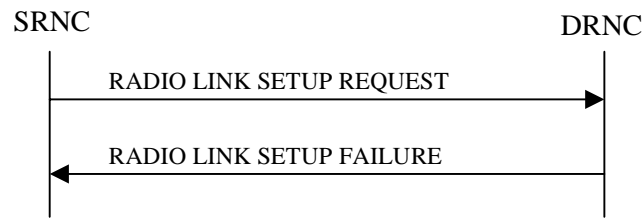


Figure 2: Radio Link Setup procedure: Unsuccessful Operation

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

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

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

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

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

Typical cause values are:

Radio Network Layer Causes:

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

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

- Transaction not Allowed

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

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

8.3.2 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

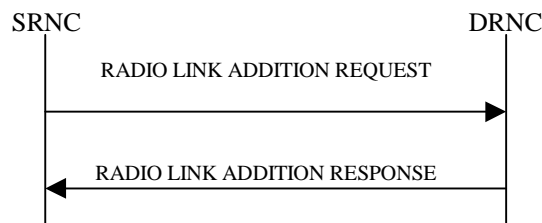


Figure 3: Radio Link Addition procedure: Successful Operation

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

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

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

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

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

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

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

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

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT may 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 that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

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

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

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

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

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

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

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

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

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

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

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

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

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

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

8.3.2.3 Unsuccessful Operation

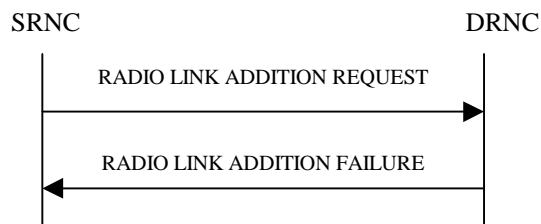


Figure 4: Radio Link Addition procedure: Unsuccessful Operation

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

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

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information IE* and the DRNS cannot provide the requested CM measurements, or if the *Transmission Gap Pattern Sequence Status IE* group repetitions in the *Active Pattern Sequence Information IE* do not address exactly all ongoing compressed mode patterns the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST is used to terminate the on going compressed mode measurement in the new RLs (as specified above), but at least one new RL is setup in one cell that has the same UARCFN of at least one cell with an already existing RL, the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

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

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

Typical cause values are:

Radio Network Layer Causes:

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

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

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

8.3.2.4 Abnormal Conditions

-

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

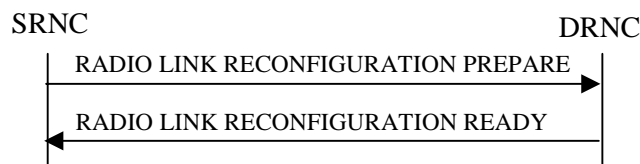


Figure 5: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

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

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

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

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

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

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

DCH Addition:

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

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

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

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

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

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

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

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

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

DCH Deletion:

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

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

Physical Channel Modification:

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

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

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

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

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

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

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

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

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

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS IE*, *TFCI coding IE* or *Puncture limit IE* the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

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

[TDD – UL/DL CCTrCH Addition]

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

[TDD – UL/DL CCTrCH Deletion]

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

SSDT Activation/Deactivation:

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

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

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

RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

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

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

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

Compressed Mode Preparation:

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

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

DSCH Addition/Modification/Deletion:

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

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

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

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

USCH Addition/Modification/Deletion [TDD]

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

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

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

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

8.3.4.3 Unsuccessful Operation

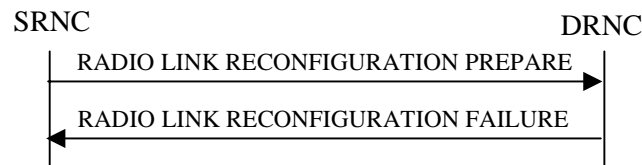


Figure 6: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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

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

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

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

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

Typical cause values are:

Radio Network Layer Causes:

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

Protocol Causes:

- Transaction not Allowed.

Miscellaneous Causes:

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

8.3.4.4 Abnormal Conditions

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

CHANGE REQUEST

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

TS 25.423 CR 146r3

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#9**
list expected approval meeting # here ↑

For approval
For information

Strategic
Non-strategic (for SMG use only)

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

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

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

Subject: **Enabled/Disabled Timing Advance in TDD Mode**

Work item: _____

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

Reason for change: **Depending on the scale of TDD cells the UE Timing Advance function needs to be enabled or disabled upon entry to the new cell.**

Clauses affected: **9.1.4, 9.1.7**

Other specs Affected:	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.331 CR 416 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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Other comments: _____

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxno of neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				to Nu in ref. [6]		
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

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

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Timing Adjustment Required	M		9.2.3.x		=	
>UL CCTrCH Information		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>DCH Information Response		<i>1..<maxno ofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		<i>0 .. <Maxnoof DSCHs></i>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>MAC-c/sh SDU Length		<i>1..<MaxNb MAC-c/shSDUL ength></i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		<i>0 .. <Maxnoof USCHs></i>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	<i>0..<maxno ofneighbouringRNCs></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		–	
>>Per FDD Cell Information		<i>0..<maxno ofFDDneighbours></i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore
>>> DCH Information Response		<i>1..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
> Neighbouring Cell Information		<i>0..<maxnoof neighbouringRNCs></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		–	
>> Per FDD Cell Information		<i>0..<maxnoof FDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>> Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoofU Lts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>Timing Adjustment Required	M		9.2.3.x		=	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<maxno OfDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<maxno OfDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof fDCHs>		Only one DCH per set of	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				co-ordinated DCHs shall be included.		
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNb MAC- c/shSDU Length>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighb ours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref.	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxnooftDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>JARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.2.3.x Timing Adjustment Required

Defines the need for the UE to adjust its timing when entering a particular cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Timing Adjustment Required</u>			<u>ENUMERATED (NoAdjustmentAdjustmentNecessary)</u>	

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

IMPORTS

```
Active-Pattern-Sequence-Information,  
AllocationRetentionPriority,  
AllowedQueuingTime,  
BLER,  
Block-STTD-Indicator,  
BindingID,  
BurstType,  
C-ID,  
C-RNTI,  
CCTrCH-ID,  
CellIndividualOffset,  
CFN,  
ClosedLoopModel-SupportIndicator,  
ClosedLoopMode2-SupportIndicator,  
ClosedloopTimingadjustmentmode,  
CN-CS-DomainIdentifier,  
CN-PS-DomainIdentifier,  
Cause,  
CellParameterID,  
ChipOffset,  
CriticalityDiagnostics,  
D-FieldLength,  
D-RNTI,  
D-RNTI-ReleaseIndication,  
DCH-ID,  
DL-DPCH-SlotFormat,  
DL-SIRTarget,  
DL-Power,  
DL-ScramblingCode,  
DPCHConstantValue,  
DPCH-ID,  
DRACControl,  
DRXCycleLengthCoefficient,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DiversityControlField,  
DiversityMode,  
DSCH-ID,  
FACH-InitialWindowSize,  
SchedulingPriorityIndicator,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,
```


GA-AccessPointPosition,
GA-Cell,
IB-SG-POS,
IB-SG-REP,
IMSI,
ISCP,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,
RANAP-RelocationInformation,
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,

AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
TimingAdjustmentRequired,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,

Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID,
USCH-ID

```

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

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

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    timingAdjustmentRequired TimingAdjustmentRequired,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
    dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
    dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
    iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    ul-InterferenceLevel UL-InterferenceLevel,

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

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

```

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    sAI                        SAI,
    gA-Cell                    GA-Cell OPTIONAL,
    gA-AccessPointPosition    GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot  UL-InterferenceList-RL-AdditionRspTDD,
    timingAdjustmentRequired  TimingAdjustmentRequired,
    ul-CCTrCHInformation       UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    dl-CCTrCHInformation       DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    diversityIndication        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR                  UL-SIR,
    maxUL-SIR                  UL-SIR,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    dSCH-InformationResponse   DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponse   USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

```



```

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

```
-- T
```

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

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

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

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

```

}

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

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

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

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

TGPSI              ::= INTEGER (1.. maxTGPS)

TGSN                ::= INTEGER (0..14)

TimeSlot           ::= INTEGER (0..14)

TimingAdjustmentRequired ::= ENUMERATED {
    NoAdjustment,
    adjustmentRequired
}

ToAWE              ::= INTEGER (0..2559)

ToAWS              ::= INTEGER (0..1279)

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
SEQUENCE {
    tGPSI          TGPSI,
    tGSN           TGSN,
    tGL1           GapLength,
    tGL2           GapLength OPTIONAL,
    tGD            TGD,
    tGPL1          GapDuration,
    tGPL2          GapDuration OPTIONAL,
    rPM            RPM,
    iTPPRM         ITPPRM,

```

```

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

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

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

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

TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}

TransportBearerID          ::= INTEGER (0..4095)

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

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

```



```

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

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

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

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

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

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

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

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

```

```

}
...
}
TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value      TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs } } OPTIONAL,
    ...
  }
TFCS-MappingOnDSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs } } OPTIONAL,
    ...
  }
TFCS-DSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransportFormatSet ::= SEQUENCE {
  dynamicParts                TransportFormatSet-DynamicPartList,
  semi-staticPart             TransportFormatSet-Semi-staticPart,
  iE-Extensions               ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
  ...
}
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
  SEQUENCE {
    nrOfTransportBlocks       NrOfTransportBlocks,
    transportBlockSize        TransportBlockSize OPTIONAL
    -- This IE is only present if nrOfTransportBlocks is greater than 0 --,
    mode                       TransportFormatSet-ModeDP,
    iE-Extensions             ProtocolExtensionContainer { {TransportFormatSet-DynamicPartList-ExtIEs} } OPTIONAL,
    ...
  }
TransportFormatSet-DynamicPartList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

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

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

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

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

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

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

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

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

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

```

```
}  
  
SecondInterleavingMode ::= ENUMERATED {  
    frame-related,  
    timeslot-related,  
    ...  
}  
  
TransportLayerAddress      ::= BIT STRING (SIZE(1..160, ...))  
  
TrCH-SrcStatisticsDescr    ::= ENUMERATED {  
    speech,  
    rRC,  
    unknown,  
    ...  
}  
  
TxDiversityIndicator      ::= ENUMERATED {  
    true,  
    false  
}
```

CHANGE REQUEST

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

TS 25.423 CR 147r1

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#9**
list expected approval meeting # here
↑

For approval
For information

Strategic
Non-strategic (for SMG use only)

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

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

Source: R-WG3 **Date:** 07/2000

Subject: Shared Channel Signalling Correction

Work item:

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

Reason for change: The shared channel UE or Cell based TFS handling is signalled when a new radio link is established, however in Radio Link addition and Synchronised Radio Link Reconfiguration a DSCH/USCH can be established for the first time for this user in a new cell so these procedures must also signal the TFS handling.

Clauses affected: 9.1.7, 9.1.12

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

Other comments:

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>> <i>Non combining</i>					YES	ignore
>>> DCH Information Response		<i>1..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
> Neighbouring Cell Information		<i>0..<maxnoof neighbouringRNCs></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		–	
>> Per FDD Cell Information		<i>0..<maxnoof FDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>> Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>> Transport Format Management	M				=	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC- c/shSDU Length>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE Diversity Indication					–	
>>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>> Transport Format Management	M				=	
>>CHOICE Diversity Indication					–	
>>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbo urs>			–	
>>>>C-Id	M		9.2.1.6		–	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD Message

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M		9.2.1.16		-	
>>Binding ID	M		9.2.1.3		-	
>>Transport Layer Address	M		9.2.1.62		-	
>DSCH to be Added or Modified		0..1			YES	ignore
>>DSCH Information		1 .. <Maxnoof DSCHs>			-	
>>>DSCH ID	M				-	
>>>Priority Indicator		1..16		Provide Information for each priority class used	-	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	-	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			-	
>>>>>MAC-c/sh SDU Length	M				-	
>>>>Binding ID	M				-	
>>>>Transport Layer Address	M				-	
>>PDSCH code mapping	M			PDSCH code mapping to be used	-	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLS for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		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		–	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH to be added		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>>UL DPCH to be modified		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	O				–	
>>>Burst Type	O				–	
>>>Midamble Shift	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>>Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
>>UL DPCH to be deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH to be added		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>> Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>>DL DPCH to be modified		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD	O				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Channelisation Code						
>>>Burst Type	O				–	
>>>Midamble Shift	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>> Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
>>DL DPCH to be deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DCH Information Response		0..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Transport Format Management	<u>M</u>				=	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNbM AC-c/shSDULength>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>USCH to be Added or Modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Transport Format Management	<u>M</u>				=	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.


```

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    sAI                        SAI,
    gA-Cell                    GA-Cell OPTIONAL,
    gA-AccessPointPosition     GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot   UL-InterferenceList-RL-AdditionRspTDD,
    ul-CCTrCHInformation        UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    dl-CCTrCHInformation        DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    diversityIndication         DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR                  UL-SIR,
    maxUL-SIR                   UL-SIR,
    maximumAllowedULTxPower     MaximumAllowedULTxPower,
    dSCH-InformationResponse     DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponse     USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

}
...
}
DiversityIndicationItem-RL-AdditionRspTDD ::= CHOICE {
    combining      Combining-RL-AdditionRspTDD,
    nonCombining   NonCombining-RL-AdditionRspTDD,
    ...
}
Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{CombiningIE-RL-AdditionRspTDD}}
CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE CombiningItem-RL-AdditionRspTDD  PRESENCE mandatory },
    ...
}
CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID          RL-ID,
    iE-Extensions  ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
NonCombining-RL-AdditionRspTDD ::= ProtocolIE-Container {{NonCombiningIE-RL-AdditionRspTDD}}
NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE NonCombiningItem-RL-AdditionRspTDD  PRESENCE mandatory },
    ...
}
NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspTDD      DCH-InformationResponseList-RL-AdditionRspTDD,
    iE-Extensions                                  ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD
DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-ID          DCH-ID,
    bindingID       BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

```

```

-- *****
--
-- RADIO LINK 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,
    ul-CCTrCH-Information UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
    dSCHsToBeAddedOrModified DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    uSCHsToBeAddedOrModified USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode          OPTIONAL,
    burstType              BurstType                        OPTIONAL,
    midambleShift          MidambleShift                    OPTIONAL,

```



```

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

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode            OPTIONAL,
    burstType                BurstType                            OPTIONAL,
    midambleShift            MidambleShift                        OPTIONAL,
    timeSlot                 TimeSlot                            OPTIONAL,
    tDD-PhysicalChannelOffset    TDD-PhysicalChannelOffset        OPTIONAL,

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

CHANGE REQUEST				Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
TS 25.423		CR 148r1		Current Version: 3.2.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team		
For submission to: RAN#9	For approval <input checked="" type="checkbox"/>	Strategic <input type="checkbox"/>	(for SMG use only)	
list expected approval meeting # here ↑	For information <input type="checkbox"/>	Non-strategic <input type="checkbox"/>		

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

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

Source: R-WG3 **Date:** 07/2000

Subject: UE capabilities needed in D-RNC

Work item: _____

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

Reason for change: Certain UE Capabilities are needed to be known in the DRNC when allocating resources

Clauses affected: _____

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

Other comments: _____

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	For the UL.	–	
>>BLER	M		9.2.1.3	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
DSCH Information		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
RL Information		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				-	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

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

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

9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
UL Physical Channel Information		1			EACH	reject
>Maximum Timeslot per frame	M		9.2.3.x	For the UL		
>Minimum Spreading Factor	M		9.2.3.x	For the UL		
>Maximum number of UL physical channels per timeslot	M		9.2.3.x			
DL Physical Channel Information		1			EACH	reject
>Maximum Timeslot per frame	M		9.2.3.x	For the DL		
>Minimum Spreading Factor	M		9.2.3.x	For the DL		
>Maximum number of DL physical channels per frame	M		9.2.3.x			
UL CCTrCH Information		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		–	
DL CCTrCH Information		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		–	
DCH Information		0..<maxno of DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
>DCH Specific Info		1..<maxno of DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>CCTrCH ID	M		9.2.3.2	UL CCTrCH in which the DCH is mapped	–	
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	

>>BLER	M		9.2.1.3	For the UL.	–	
>>BLER	M		9.2.1.3	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M				–	
DSCH Information		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M				–	
>CCTrCH ID	M			DL CCTrCH in which the DSCH is mapped	–	
>TrCh Source Statistics Descriptor	M				–	
>Transport Format Set	M			For DSCH	–	
>Allocation/Retention Priority	M				–	
>Scheduling Priority Indicator	M				–	
>BLER	M				–	
USCH Information		0 to <maxnoof USCHs>			GLOBAL	reject
>USCH ID	M				–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>TrCh Source Statistics Descriptor	M				–	
>Transport Format Set	M			For USCH	–	
>Allocation/Retention Priority	M				–	
>Scheduling Priority Indicator	M				–	
>RB Info		1 to <maxnoof RB>		All Radio Bearers using this USCH	–	
>>RB Identity	M				–	
RL Information		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		–	
>Time slot ISCP Info		0..<maxno ofDLts>			–	
>>Time slot	M				–	
>>Time slot ISCP	M				–	

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

9.2.3.x Maximum Number of timeslots per frame

Defines the maximum number of timeslots the UE has the capability of receiving or transmitting.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Maximum Number of Timeslots per frame			INTEGER (1..14)	

9.2.3.x Maximum number of UL physical channels per timeslot

Defines the maximum number of physical channels per frame that the UE is capable to transmit

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Maximum Number of UL Physical channels per Timeslot			INTEGER (1..2)	

9.2.3.x Maximum number of DL physical channels per frame

Defines the maximum number of physical channels per frame that the UE is capable to receive.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Maximum Number of DL Physical channels per Frame			INTEGER (1..224)	

9.2.3.x Minimum Spreading Factor

Defines the minimum spreading factor the UE has the capability of receiving or transmitting.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
Minimum Spreading Factor			INTEGER (1..16)	

```
-- *****  
--  
-- IE parameter types from other modules.  
--  
-- *****  
IMPORTS  
  Active-Pattern-Sequence-Information,  
  AllocationRetentionPriority,  
  AllowedQueuingTime,  
  BLER,  
  Block-STTD-Indicator,  
  BindingID,  
  BurstType,  
  C-ID,  
  C-RNTI,  
  CCTrCH-ID,  
  CellIndividualOffset,  
  CFN,  
  ClosedLoopModel-SupportIndicator,  
  ClosedLoopMode2-SupportIndicator,  
  ClosedloopTimingadjustmentmode,  
  CN-CS-DomainIdentifier,  
  CN-PS-DomainIdentifier,  
  Cause,  
  CellParameterID,  
  ChipOffset,  
  CriticalityDiagnostics,  
  D-FieldLength,  
  D-RNTI,  
  D-RNTI-ReleaseIndication,  
  DCH-ID,  
  DL-DPCH-SlotFormat,  
  DL-SIRTarget,  
  DL-Power,  
  DL-ScramblingCode,  
  DPCHConstantValue,  
  DPCH-ID,  
  DRACControl,  
  DRXCycleLengthCoefficient,  
  DedicatedMeasurementType,  
  DedicatedMeasurementValue,  
  DiversityControlField,  
  DiversityMode,  
  DSCH-ID,  
  FACH-InitialWindowSize,  
  SchedulingPriorityIndicator,  
  FDD-DL-ChannelisationCodeNumber,  
  FDD-S-CCPCH-Offset,  
  FDD-TPC-DownlinkStepSize,  
  FirstRLS-Indicator,  
  FrameHandlingPriority,
```

FrameOffset,
GA-AccessPointPosition,
GA-Cell,
IB-SG-POS,
IB-SG-REP,
IMSI,
ISCP,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrDLPhysicalchannels,
MaxNrOfUL-DPCHs,
MaxNrTimeslots,
MaxNrULPhysicalchannels,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinimumSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,
RANAP-RelocationInformation,
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,

```
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,
URA-ID,
USCH-ID
FROM RNSAP-IES

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
RNSAP-PRIVATE-IES,
```

```
RNSAP-PROTOCOL-EXTENSION,  
RNSAP-PROTOCOL-IES,  
RNSAP-PROTOCOL-IES-PAIR  
FROM RNSAP-Containers
```

```
maxNoOfDSCHs,  
maxNoOfRB,  
maxNoOfUSCHs,  
maxNrOfCCTrCHs,  
maxNrOfDCHs,  
maxNrOfDL-Codes,  
maxNrOfDPCHs,  
maxNrOfMACcshSDU-Length,  
maxNrOfRRLs,  
maxNrOfRRLSets,  
maxNrOfRRLs-1,  
maxNrOfRRLs-2,  
maxNrOfSCCPCHs,  
maxNrOfULTs,  
maxNrOfDLTs,  
maxRNCinURA-1,  
maxNrOfNeighbouringRNCs,  
maxNrOfFDDNeighboursPerRNC,  
maxNrOfTDDNeighboursPerRNC,  
maxFACHCountPlus1,  
maxIBSEG,
```

```
id-Active-Pattern-Sequence-Information,  
id-AdjustmentRatio,  
id-All-RLItem-DM-Rqst,  
id-All-RLItem-Set-DM-Rqst,  
id-AllowedQueuingTime,  
id-BindingID,  
id-C-ID,  
id-C-RNTI,  
id-CFN,  
id-CN-CS-DomainIdentifier,  
id-CN-PS-DomainIdentifier,  
id-Cause,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CellItem-PagingRqst,  
id-CombiningItem-RL-AdditionFailureFDD,  
id-CombiningItem-RL-AdditionRspFDD,  
id-CombiningItem-RL-AdditionRspTDD,  
id-CombiningItem-RL-SetupFailureFDD,  
id-CombiningItem-RL-SetupRspFDD,  
id-CriticalityDiagnostics,
```


id-D-RNTI,
id-D-RNTI-ReleaseIndication,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRqstTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-Information-RL-SetupRqstFDD,
id-DCH-InformationList-RL-SetupRqstTDD,
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,
id-DCH-InformationResponseListIE-RL-ReconfRsp,
id-DCH-ModifyList-RL-ReconfPrepFDD,
id-DCH-ModifyList-RL-ReconfPrepTDD,
id-DCH-ModifyList-RL-ReconfRqstFDD,
id-DCH-ModifyList-RL-ReconfRqstTDD,
id-DCH-InformationResponseListIE-RL-SetupRspTDD,
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
id-DL-CodeInformationListIE-RL-AdditionRspFDD,
id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
id-DL-CodeInformationListIE-RL-ReconfRsp,
id-DL-CodeInformationListIE-RL-SetupFailureFDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-SetupRqstFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
id-DL-DPCH-InformationItem-RL-SetupRspTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,

id-DL-Physical-Channel-Information-RL-SetupRqstTDD,

id-DL-SIRTarget,
id-DLReferencePower,
id-DLReferencePowerList-DL-PC-Rqst,
id-DL-ReferencePowerInformation-DL-PC-Rqst,
id-DRXCycleLengthCoefficient,
id-DedicatedMeasurementObjectType-DM-Rprt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DiversityIndicationItem-RL-AdditionFailureFDD,
id-DiversityIndicationItem-RL-AdditionRspFDD,
id-DiversityIndicationItem-RL-AdditionRspTDD,
id-DiversityIndicationItem-RL-SetupFailureFDD,
id-DiversityIndicationItem-RL-SetupRspFDD,
id-DSCH-AddList-RL-ReconfPrepTDD,
id-DSCH-Add-RL-ReconfPrepFDD,
id-DSCH-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Delete-RL-ReconfPrepFDD,
id-DSCH-InformationItem-RL-SetupRqstFDD,
id-DSCH-InformationListIE-RL-AdditionRspTDD,
id-DSCH-InformationListIEs-RL-SetupRspTDD,
id-DSCH-InformationList-RL-SetupRqstTDD,
id-DSCH-InformationResponseItem-RL-SetupRspFDD,
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD,
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD,
id-DSCH-Information-RL-SetupRqstFDD,
id-DSCH-ModifyList-RL-ReconfPrepTDD,
id-DSCH-Modify-RL-ReconfPrepFDD,
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD,
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD,
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD,
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,
id-GA-AccessPointPosition,
id-GA-Cell,
id-GeneralCauseItem-RL-AdditionFailureFDD,
id-GeneralCauseItem-RL-AdditionFailureTDD,
id-GeneralCauseItem-RL-ReconfFailure,
id-GeneralCauseItem-RL-SetupFailureFDD,
id-GeneralCauseItem-RL-SetupFailureTDD,
id-IMSI,
id-L3-Information,
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD,
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD,
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
id-AdjustmentPeriod,
id-MaxAdjustmentStep,
id-MeasurementAvailableItem-DedicatedMeasurementReport,

id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MultipleURAsIndicator,
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD,
id-Neighbouring-CellInformationItem-RL-AdditionRsp,
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
id-Neighbouring-CellInformationItem-RL-SetupRsp,
id-NonCombiningItem-RL-AdditionFailureFDD,
id-NonCombiningItem-RL-AdditionRspFDD,
id-NonCombiningItem-RL-AdditionRspTDD,
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,
id-PagingArea-PagingRqst,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
id-PowerAdjustmentType,
id-ProcedureScope-DL-PC-Rqst,
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD,
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD,
id-RANAP-RelocationInformation,
id-RL-Information-PhyChReconfRqstFDD,
id-RL-Information-PhyChReconfRqstTDD,
id-RL-Information-RL-AdditionRqstFDD,
id-RL-Information-RL-AdditionRqstTDD,
id-RL-Information-RL-DeletionRqst,
id-RL-Information-RL-FailureInd,
id-RL-Information-RL-ReconfPrepFDD,
id-RL-Information-RL-RestoreInd,
id-RL-Information-RL-SetupRqstFDD,
id-RL-Information-RL-SetupRqstTDD,
id-RL-InformationItem-DM-Rprt,
id-RL-InformationItem-DM-Rqst,
id-RL-InformationItem-DM-Rsp,
id-RL-InformationItem-RL-SetupRqstFDD,
id-RL-InformationList-RL-AdditionRqstFDD,
id-RL-InformationList-RL-DeletionRqst,
id-RL-InformationList-RL-ReconfPrepFDD,
id-RL-InformationResponse-RL-AdditionRspTDD,
id-RL-InformationResponse-RL-ReconfReadyTDD,
id-RL-InformationResponse-RL-SetupRspTDD,
id-RL-InformationResponseItem-RL-AdditionRspFDD,
id-RL-InformationResponseItem-RL-ReconfReadyFDD,
id-RL-InformationResponseItem-RL-ReconfRsp,
id-RL-InformationResponseItem-RL-SetupRspFDD,
id-RL-InformationResponseList-RL-AdditionRspFDD,
id-RL-InformationResponseList-RL-ReconfReadyFDD,
id-RL-InformationResponseList-RL-ReconfRsp,
id-RL-InformationResponseList-RL-SetupRspFDD,

id-RLItem-DM-Rprt,
id-RLItem-DM-Rqst,
id-RLItem-DM-Rsp,
id-RLItem-RL-FailureInd,
id-RLItem-RL-RestoreInd,
id-RL-ReconfigurationFailure-RL-ReconfFail,
id-RL-Set-InformationItem-DM-Rprt,
id-RL-Set-InformationItem-DM-Rqst,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-Information-RL-FailureInd,
id-RL-Set-Information-RL-RestoreInd,
id-RL-SetItem-DM-Rprt,
id-RL-SetItem-DM-Rqst,
id-RL-SetItem-DM-Rsp,
id-RL-SetItem-RL-FailureInd,
id-RL-SetItem-RL-RestoreInd,
id-RLSpecificCauseItem-RL-AdditionFailureFDD,
id-RLSpecificCauseItem-RL-AdditionFailureTDD,
id-RLSpecificCauseItem-RL-ReconfFailure,
id-RLSpecificCauseItem-RL-SetupFailureFDD,
id-RLSpecificCauseItem-RL-SetupFailureTDD,
id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind,
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD,
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD,
id-ReportCharacteristics,
id-Reporting-Object-RL-FailureInd,
id-Reporting-Object-RL-RestoreInd,
id-S-RNTI,
id-SAI,
id-SRNC-ID,
id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD,
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-TransportBearerID,
id-TransportBearerRequestIndicator,
id-TransportLayerAddress,
id-UC-ID,
id-Transmission-Gap-Pattern-Sequence-Information,
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,

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id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
id-UL-Physical-Channel-Information-RL-SetupRqstTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-USCH-AddList-RL-ReconfPrepTDD,
id-USCH-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationListIE-RL-AdditionRspTDD,
id-USCH-InformationListIEs-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyList-RL-ReconfPrepTDD,
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD

FROM RNSAP-Constants;

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

DPCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfDPCHs, { IEsSetParam } }
RL-IE-ContainerList0      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1      { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs, { IEsSetParam } }
RL-IE-ContainerList1-1    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-1    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-1, { IEsSetParam } }
RL-IE-ContainerList0-2    { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfRLs-2, { IEsSetParam } }
RL-Set-IE-ContainerList   { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfRLSets, { IEsSetParam } }
CCTrCH-IE-ContainerList0  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 0, maxNrOfCCTrCHs, { IEsSetParam } }
CCTrCH-IE-ContainerList1  { RNSAP-PROTOCOL-IES : IEsSetParam } ::= ProtocolIE-ContainerList { 1, maxNrOfCCTrCHs, { IEsSetParam } }
-- R3-001592,CR74r6

```

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DSCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IEsSetParam}      ::= ProtocolIE-ContainerList { 1, maxNoOfDSCHs,      { IEsSetParam } }
USCH-IE-ContainerList      { RNSAP-PROTOCOL-IES : IEsSetParam}      ::= ProtocolIE-ContainerList { 1, maxNoOfUSCHs,      { IEsSetParam } }

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

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

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI                CRITICALITY reject  TYPE S-RNTI                PRESENCE mandatory } |
    { ID id-D-RNTI                CRITICALITY reject  TYPE D-RNTI                PRESENCE optional  } |
    { ID id-AllowedQueuingTime     CRITICALITY reject  TYPE AllowedQueuingTime           PRESENCE optional  } |
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject  TYPE UL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject  TYPE DL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DCH-Information-RL-SetupRqstFDD     CRITICALITY reject  TYPE DCH-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
-- R3-001592,CR74r6
    { ID id-DSCH-Information-RL-SetupRqstFDD     CRITICALITY reject  TYPE DSCH-Information-RL-SetupRqstFDD     PRESENCE optional  } |
    { ID id-RL-Information-RL-SetupRqstFDD       CRITICALITY notify   TYPE RL-InformationList-RL-SetupRqstFDD   PRESENCE mandatory } |
-- R3-001608,CR126r1
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject  TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }
    |
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject  TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    ...
}

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

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

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```

}
...
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                                TFCS,
    dl-DPCH-SlotFormat                 DL-DPCH-SlotFormat,
-- R3-001470,CR84r3
    nrOfDLchannelisationcodes         NrOfDLchannelisationcodes,
    tFCI-SignallingMode               TFCI-SignallingMode,
    tFCI-Presence                      TFCI-Presence OPTIONAL
-- This IE is present if Slot Format is from 12 to 16 --,
    multiplexingPosition               MultiplexingPosition,
    powerOffsetInformation             SEQUENCE {
        po1-ForTFCI-Bits              PowerOffset,
        po2-ForTPC-Bits               PowerOffset,
        po3-ForPilotBits              PowerOffset,
        ...
    },
    fdd-dl-TPC-DownlinkStepSize       FDD-TPC-DownlinkStepSize,
-- R3-001257,CR78r2
    limitedPowerIncrease               LimitedPowerIncrease,
    iE-Extensions                     ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
-- R3-001616,CR113r2
    payloadCRC-PresenceIndicator       PayloadCRC-PresenceIndicator,
    ul-FP-Mode                         UL-FP-Mode,
    toAWS                               ToAWS,
    toAWE                               ToAWE,
    dCH-SpecificInformationList        DCH-SpecificInformationList-RL-SetupRqstFDD,
    iE-Extensions                     ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

-- R3-001616,CR113r2
DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                             DCH-ID,

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-- R3-001616,CR113r2
-- R3-001257,CR78r2
    trCH-SrcStatisticsDescr          TrCH-SrcStatisticsDescr,
    ul-transportFormatSet            TransportFormatSet,
    dl-transportFormatSet            TransportFormatSet,
    ul-BLER                           BLER,
    dl-BLER                           BLER,
    allocationRetentionPriority        AllocationRetentionPriority,
    frameHandlingPriority              FrameHandlingPriority,
-- R3-001616,CR113r2
    qE-Selector                       QE-Selector,
-- R3-001616,CR113r2
    dRACControl                       DRACControl,
    iE-Extensions                      ProtocolExtensionContainer { {DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

-- R3-001592,CR74r6
DSCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-Information                  DSCH-Info-RL-SetupRqstFDD,
    pdSCH-RL-ID                       RL-ID,
    tFCS                               TFCS,
    iE-Extensions                      ProtocolExtensionContainer { {DSCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

DSCH-Info-RL-SetupRqstFDD ::= DSCH-IE-ContainerList {{DSCH-InformationItemIEs-RL-SetupRqstFDD} }

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

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                            DSCH-ID,
    trChSourceStatisticsDescriptor      TrCH-SrcStatisticsDescr,
    transportFormatSet                  TransportFormatSet,
    allocationRetentionPriority           AllocationRetentionPriority,
    schedulingPriorityIndicator           SchedulingPriorityIndicator,
    bLER                                BLER,
    iE-Extensions                      ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

```



```

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

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

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

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID RL-ID,
    c-ID C-ID,
-- R3-001314,CR110
    firstRLS-indicator FirstRLS-Indicator,
    frameOffset FrameOffset,
    chipOffset ChipOffset,
    propagationDelay PropagationDelay OPTIONAL,
    diversityControlField DiversityControlField OPTIONAL
-- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
    dl-InitialTX-Power DL-Power OPTIONAL,
    primaryCPICH-EcNo PrimaryCPICH-EcNo OPTIONAL,
    sSDT-CellID SSDT-CellID OPTIONAL,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
    iE-Extensions ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                  UL-FP-Mode,
    toAWS                       ToAWS,
    toAWE                       ToAWE,
    dch-SpecificInformationList DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions               ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {

```

```

dCH-ID                DCH-ID,
ul-cCtRCH-ID          CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
dl-cCtRCH-ID          CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
ul-transportFormatSet TransportFormatSet,
dl-transportFormatSet TransportFormatSet,
ul-BLER               BLER,
dl-BLER               BLER,
allocationRetentionPriority AllocationRetentionPriority,
frameHandlingPriority FrameHandlingPriority,
qE-Selector           QE-Selector,
iE-Extensions         ProtocolExtensionContainer { {DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

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

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

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

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
uSCH-ID                USCH-ID,
ul-CCTrCH-ID          CCTrCH-ID,
trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
transportFormatSet     TransportFormatSet,
allocationRetentionPriority AllocationRetentionPriority,
schedulingPriorityIndicator SchedulingPriorityIndicator,
rb-Info               RB-Info,
iE-Extensions         ProtocolExtensionContainer { {USCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}

```

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

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

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

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

TimeSlot-ISCPList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDLTs)) OF Timeslot-ISCPIItem-RL-SetupRspTDD

Timeslot-ISCPIItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    iSCP                ISCP,
    iE-Extensions       ProtocolExtensionContainer { { Timeslot-ISCPIItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

```
-- M
MaxNrOfUL-DPCHs          ::= INTEGER (1..6)
MAC-c-sh-SDU-Length      ::= INTEGER (1..5000)
MaximumAllowedULTxPower  ::= INTEGER (-50..33)
MaxNrDLPhysicalchannels ::= INTEGER (1..2)
MaxNrTimeslots         ::= INTEGER (1..14)
MaxNrULPhysicalchannels ::= INTEGER (1..224)
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
}
AdjustmentPeriod         ::= INTEGER(1..300)
-- Unit Frame
ScaledAdjustmentRatio    ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100
MaxAdjustmentStep        ::= INTEGER(1..10)
-- Unit Slot
MeasurementChangeTime    ::= INTEGER (1..6000)
-- The MeasurementChangeTime gives the MeasurementChangeTime
-- in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unis is ms, Step is 10 ms
```

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

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

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

MidambleShift ::= INTEGER (0..15)

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

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

```

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

id-AllowedQueuingTime          INTEGER ::= 4
id-BindingID                   INTEGER ::= 5
id-C-ID                         INTEGER ::= 6
id-C-RNTI                       INTEGER ::= 7
id-CFN                          INTEGER ::= 8
id-CN-CS-DomainIdentifier      INTEGER ::= 9
id-CN-PS-DomainIdentifier      INTEGER ::= 10
id-Cause                        INTEGER ::= 11
id-CellItem-PagingRqst        INTEGER ::= 12
id-CombiningItem-RL-AdditionFailureFDD  INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD    INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD    INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD   INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD      INTEGER ::= 19
id-CriticalityDiagnostics        INTEGER ::= 20
id-D-RNTI                       INTEGER ::= 21
id-D-RNTI-ReleaseIndication     INTEGER ::= 22
id-DCH-AddList-RL-ReconfPrepFDD     INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD     INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD     INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD     INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD  INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD  INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD  INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD  INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD  INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD  INTEGER ::= 35
id-DCH-ModifyList-RL-ReconfPrepFDD  INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD  INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD  INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD  INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD  INTEGER ::= 43
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD  INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD  INTEGER ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD  INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD  INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD  INTEGER ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  INTEGER ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  INTEGER ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  INTEGER ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD  INTEGER ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD  INTEGER ::= 55

```


id-DL-CodeInformationListIE-RL-AdditionRspFDD	INTEGER ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD	INTEGER ::= 57
id-DL-CodeInformationListIE-RL-SetupFailureFDD	INTEGER ::= 58
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 64
<u>id-DL-Physical-Channel-Information-RL-SetupRqstTDD</u>	<u>INTEGER ::= xx</u>
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	INTEGER ::= 69
id-DRXCycleLengthCoefficient	INTEGER ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 73
id-DedicatedMeasurementType	INTEGER ::= 74
id-DiversityIndicationItem-RL-AdditionFailureFDD	INTEGER ::= 75
id-DiversityIndicationItem-RL-AdditionRspFDD	INTEGER ::= 76
id-DiversityIndicationItem-RL-AdditionRspTDD	INTEGER ::= 77
id-DiversityIndicationItem-RL-SetupFailureFDD	INTEGER ::= 78
id-DiversityIndicationItem-RL-SetupRspFDD	INTEGER ::= 79
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 80
id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 81
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD	INTEGER ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD	INTEGER ::= 83
id-IMSI	INTEGER ::= 84
id-L3-Information	INTEGER ::= 85
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD	INTEGER ::= 86
id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD	INTEGER ::= 87
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 88
id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 89
id-AdjustmentPeriod	INTEGER ::= 90
id-MaxAdjustmentStep	INTEGER ::= 91
id-MeasurementFilterCoefficient	INTEGER ::= 92
id-MeasurementID	INTEGER ::= 93
id-MultipleURAsIndicator	INTEGER ::= 94
id-Neighbouring-CellInformationItem-RL-SetupFailureFDD	INTEGER ::= 95
id-Neighbouring-CellInformationItem-RL-SetupRsp	INTEGER ::= 96
id-NonCombiningItem-RL-AdditionFailureFDD	INTEGER ::= 97
id-NonCombiningItem-RL-AdditionRspFDD	INTEGER ::= 98
id-NonCombiningItem-RL-AdditionRspTDD	INTEGER ::= 99
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 100
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 101
id-PagingArea-PagingRqst	INTEGER ::= 102
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD	INTEGER ::= 103
id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD	INTEGER ::= 104
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD	INTEGER ::= 105
id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD	INTEGER ::= 106

id-PowerAdjustmentType
 id-ProcedureScope-DL-PC-Rqst
 id-RANAP-RelocationInformation
 id-RL-Information-PhyChReconfRqstFDD
 id-RL-Information-PhyChReconfRqstTDD
 id-RL-Information-RL-AdditionRqstFDD
 id-RL-Information-RL-AdditionRqstTDD
 id-RL-Information-RL-DeletionRqst
 id-RL-Information-RL-FailureInd
 id-RL-Information-RL-ReconfPrepFDD
 id-RL-Information-RL-RestoreInd
 id-RL-Information-RL-SetupRqstFDD
 id-RL-Information-RL-SetupRqstTDD
 id-RL-InformationItem-DM-Rprt
 id-RL-InformationItem-DM-Rqst
 id-RL-InformationItem-DM-Rsp
 id-RL-InformationItem-RL-SetupRqstFDD
 id-RL-InformationList-RL-AdditionRqstFDD
 id-RL-InformationList-RL-DeletionRqst
 id-RL-InformationList-RL-ReconfPrepFDD
 id-RL-InformationResponse-RL-AdditionRspTDD
 id-RL-InformationResponse-RL-ReconfReadyTDD
 id-RL-InformationResponse-RL-SetupRspTDD
 id-RL-InformationResponseItem-RL-AdditionRspFDD
 id-RL-InformationResponseItem-RL-ReconfReadyFDD
 id-RL-InformationResponseItem-RL-ReconfRsp
 id-RL-InformationResponseItem-RL-SetupRspFDD
 id-RL-InformationResponseList-RL-AdditionRspFDD
 id-RL-InformationResponseList-RL-ReconfReadyFDD
 id-RL-InformationResponseList-RL-ReconfRsp
 id-RL-InformationResponseList-RL-SetupRspFDD
 id-RLItem-DM-Rprt
 id-RLItem-DM-Rqst
 id-RLItem-DM-Rsp
 id-RL-ReconfigurationFailure-RL-ReconfFail
 id-RL-Set-InformationItem-DM-Rprt
 id-RL-Set-InformationItem-DM-Rqst
 id-RL-Set-InformationItem-DM-Rsp
 id-RL-Set-Information-RL-FailureInd
 id-RL-Set-Information-RL-RestoreInd
 id-RL-SetItem-DM-Rprt
 id-RL-SetItem-DM-Rqst
 id-RL-SetItem-DM-Rsp
 id-RNCsWithCellsInTheAccessedURA-List-UL-ST-Ind
 id-ReportCharacteristics
 id-Reporting-Object-RL-FailureInd
 id-Reporting-Object-RL-RestoreInd
 id-S-RNTI
 id-SAI
 id-SRNC-ID
 id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD

INTEGER ::= 107
 INTEGER ::= 108
 INTEGER ::= 109
 INTEGER ::= 110
 INTEGER ::= 111
 INTEGER ::= 112
 INTEGER ::= 113
 INTEGER ::= 114
 INTEGER ::= 115
 INTEGER ::= 116
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 INTEGER ::= 154
 INTEGER ::= 155
 INTEGER ::= 156
 INTEGER ::= 157
 INTEGER ::= 158

id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 160
id-SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 161
id-SuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 162
id-TransportBearerID	INTEGER ::= 163
id-TransportBearerRequestIndicator	INTEGER ::= 164
id-TransportLayerAddress	INTEGER ::= 165
id-UC-ID	INTEGER ::= 166
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD	INTEGER ::= 167
id-UL-CCTrCH-InformationAddItem-RL-ReconfRqstTDD	INTEGER ::= 168
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 169
id-UL-CCTrCH-InformationAddList-RL-ReconfRqstTDD	INTEGER ::= 170
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	INTEGER ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 174
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	INTEGER ::= 175
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	INTEGER ::= 176
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 177
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 178
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 179
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 180
id-UL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 181
id-UL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 182
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 183
id-UL-Physical-Channel-Information-RL-SetupRqstTDD	INTEGER ::= xx
id-UL-SIRTarget	INTEGER ::= 184
id-URA-ID	INTEGER ::= 185
id-URAIItem-PagingRqst	INTEGER ::= 186
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	INTEGER ::= 188
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	INTEGER ::= 189
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	INTEGER ::= 190
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD	INTEGER ::= 191
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD	INTEGER ::= 192
id-Active-Pattern-Sequence-Information	INTEGER ::= 193
id-AdjustmentRatio	INTEGER ::= 194
id-All-RLItem-DM-Rqst	INTEGER ::= 195
id-All-RLItem-Set-DM-Rqst	INTEGER ::= 196
id-CauseLevel-RL-AdditionFailureFDD	INTEGER ::= 197
id-CauseLevel-RL-AdditionFailureTDD	INTEGER ::= 198
id-CauseLevel-RL-ReconfFailure	INTEGER ::= 199
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 200
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 201
id-DCH-InformationResponseListIE-RL-ReconfReadyFDD	INTEGER ::= 202
id-DCH-InformationResponseListIE-RL-ReconfReadyTDD	INTEGER ::= 203
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 204
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	INTEGER ::= 205
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	INTEGER ::= 206
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 207
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 208
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 209

id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 210
id-DL-CodeInformationListIE-RL-ReconfResp	INTEGER ::= 211
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	INTEGER ::= 212
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	INTEGER ::= 213
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	INTEGER ::= 214
id-DSCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 215
id-DSCH-Add-RL-ReconfPrepFDD	INTEGER ::= 216
id-DSCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 217
id-DSCH-Delete-RL-ReconfPrepFDD	INTEGER ::= 218
id-DSCH-InformationItem-RL-SetupRqstFDD	INTEGER ::= 219
id-DSCH-InformationListIE-RL-AdditionRspTDD	INTEGER ::= 220
id-DSCH-InformationListIEs-RL-SetupRspTDD	INTEGER ::= 221
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 222
id-DSCH-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 223
id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD	INTEGER ::= 224
id-DSCH-InformationResponseListIE-RL-SetupFailureFDD	INTEGER ::= 225
id-DSCH-Information-RL-SetupRqstFDD	INTEGER ::= 226
id-DSCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 227
id-DSCH-Modify-RL-ReconfPrepFDD	INTEGER ::= 228
id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD	INTEGER ::= 229
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	INTEGER ::= 230
id-GA-AccessPointPosition	INTEGER ::= 231
id-GA-Cell	INTEGER ::= 232
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 233
id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 234
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 235
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 236
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 237
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 238
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 239
id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD	INTEGER ::= 240
id-Neighbouring-CellInformationItem-RL-AdditionRsp	INTEGER ::= 241
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD	INTEGER ::= 242
id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD	INTEGER ::= 243
id-RLItem-RL-FailureInd	INTEGER ::= 244
id-RLItem-RL-RestoreInd	INTEGER ::= 245
id-RL-SetItem-RL-FailureInd	INTEGER ::= 246
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 247
id-RLSpecificCauseItem-RL-AdditionFailureFDD	INTEGER ::= 248
id-RLSpecificCauseItem-RL-AdditionFailureTDD	INTEGER ::= 249
id-RLSpecificCauseItem-RL-ReconfFailure	INTEGER ::= 250
id-RLSpecificCauseItem-RL-SetupFailureFDD	INTEGER ::= 251
id-RLSpecificCauseItem-RL-SetupFailureTDD	INTEGER ::= 252
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspFDD	INTEGER ::= 253
id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD	INTEGER ::= 254
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= 255
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	INTEGER ::= 256
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	INTEGER ::= 257
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 258
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 259
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 260

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id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD
id-USCH-AddList-RL-ReconfPrepTDD
id-USCH-DeleteList-RL-ReconfPrepTDD
id-USCH-InformationListIE-RL-AdditionRspTDD
id-USCH-InformationListIEs-RL-SetupRspTDD
id-USCH-InformationList-RL-SetupRgstTDD
id-USCH-ModifyList-RL-ReconfPrepTDD
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
END

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INTEGER ::= 261
INTEGER ::= 262
INTEGER ::= 263
INTEGER ::= 264
INTEGER ::= 265
INTEGER ::= 266
INTEGER ::= 267
INTEGER ::= 268
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INTEGER ::= 270
INTEGER ::= 271
INTEGER ::= 272
INTEGER ::= 273

3GPP TSG RAN WG3 Meeting #15
Berlin, Germany, 21st – 25th August 2000

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

CHANGE REQUEST

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

TS 25.423 CR 149r2

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

For submission to: **RAN#9**

list expected approval meeting # here

↑

For approval
 For information

Strategic
 Non-strategic (for SMG use only)

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

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

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

Subject: Alignment of DPCH configuration with WG2 and WG1

Work item:

Category: F Correction **Release:** Phase 2
 A Corresponds to a correction in an earlier release Release 96
 B Addition of feature Release 97
 C Functional modification of feature Release 98
 D Editorial modification Release 99
 Release 00

(only one category shall be marked With an X)

Reason for change: The configuration of DPCH's in WG3 is not completely consistent with WG2 and WG1 specifications

Clauses affected: 8.3.4, 9.1.4, 9.1.7, 9.1.12, 9.1.21, 9.2.155, 9.2.3.6, 9.2.3.7, 9.2.3.9, 9.2.3.x, 9.3

Other specs Affected:

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

Other comments:

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

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

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

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

8.3.4.2 Successful Operation

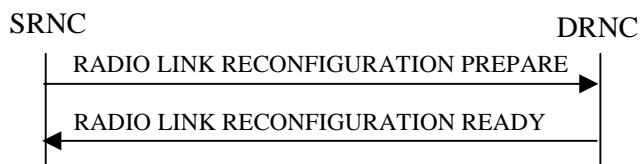


Figure 1: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

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

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

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

DCH Modification:

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

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

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

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

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

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

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

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

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

DCH Addition:

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

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

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

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

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

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

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

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

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

DCH Deletion:

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

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

Physical Channel Modification:

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

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

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

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

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

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

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

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

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

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS IE*, *TFCI coding IE* or *Puncture limit IE* the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

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

[TDD – 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 *Burst Type IE*, *Midamble shift IE*, *Time Slot IE*, *TFCI presence IE* or Code information was modified. The DRNC shall include code information if *TDD Channelisation Code IE* was modified..]

[TDD – UL/DL CCTrCH Addition]

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

[TDD – If the DRNC has reserved the required resources for any requested DPCHs, the DRNC shall include the DPCH information within DPCH to be added in the RADIO LINK RECONFIGURATION READY message.]

[TDD – UL/DL CCTrCH Deletion]

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

SSDT Activation/Deactivation:

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

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

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

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

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

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

Compressed Mode Preparation:

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

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

DSCH Addition/Modification/Deletion:

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

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

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

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

USCH Addition/Modification/Deletion [TDD]

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

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

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

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

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				to Nu in ref. [6]		
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

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

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>UL CCTrCH Information		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno of DPCHs0 ..1>			<u>EACHYES</u>	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>UL Timeslot Information		1 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Burst Type	M		9.2.3.1		–	
>>>>Midamble Shift	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>UL Code Information		1 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>>DPCH ID	M		9.2.3.3		–	
>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>>Burst Type	M		9.2.3.1		–	
>>>>Midamble Shift	M		9.2.3.4		–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>>Repetition Period	M		9.2.3.7		–	
>>>>Repetition Length	M		9.2.3.6		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxno		For DCH	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		<i>ofCCTrCHs></i>				
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		<i>1..<Maxno ofDPCHs0..1></i>			<u>EACHYES</u>	ignore
>>>Repetition Period	M		<u>9.2.3.7</u>		–	
>>>Repetition Length	M		<u>9.2.3.6</u>		–	
>>>TDD DPCH Offset	M		<u>9.2.3.x</u>		–	
>>>DL Timeslot Information		<i>1 to <maxnoOf TS</i>			–	
>>>>Time Slot	M		<u>9.2.1.56</u>		–	
>>>>Burst Type	M		<u>9.2.3.1</u>		–	
>>>>Midamble Shift	M		<u>9.2.3.4</u>		–	
>>>>TFCI Presence	M		<u>9.2.1.55</u>		–	
>>>>DL Code Information		<i>1 to <maxnoOf DPCH></i>			–	
>>>>>DPCH ID	M		<u>9.2.3.3</u>		–	
>>>>>TDD Channelisation Code	M		<u>9.2.3.8</u>		–	
>>>>DPCH ID	M		<u>9.2.3.3</u>		–	
>>>>TDD Channelisation Code	M		<u>9.2.3.8</u>		–	
>>>>Burst Type	M		<u>9.2.3.1</u>		–	
>>>>Midamble Shift	M		<u>9.2.3.4</u>		–	
>>>>Time Slot	M		<u>9.2.1.56</u>		–	
>>>>TDD Physical Channel Offset	M		<u>9.2.3.9</u>		–	
>>>>Repetition Period	M		<u>9.2.3.7</u>		–	
>>>>Repetition Length	M		<u>9.2.3.6</u>		–	
>>>>TFCI Presence	M		<u>9.2.1.55</u>		–	
>DCH Information Response		<i>1..<maxno ofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		<i>0 .. <Maxnoof DSCHs></i>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		<i>1..<MaxNb MAC-c/shSDUL ength></i>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Management						
>USCH Information Response		0..<Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighbouringRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneighbours>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxno ofTDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

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

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<maxnoof DPCHs>0..1			EACHYES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>UL Timeslot Information		1 to <maxnoOfTS>			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Burst Type	M		9.2.3.1		–	
>>>>Midamble Shift	M		9.2.3.4		–	
>>>>TFCI Presence	M		9.2.1.55		–	
>>>>UL Code Information		1 to <maxnoOfDPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>>>Burst Type	M		9.2.3.1		–	
>>>>>Midamble Shift	M		9.2.3.4		–	
>>>>>Time Slot	M		9.2.1.56		–	
>>>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>>>Repetition Period	M		9.2.3.7		–	
>>>>>Repetition Length	M		9.2.3.6		–	
>>>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<maxnoof DPCHs>0..1			EACHYES	ignore
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TDD DPCH Offset	M		9.2.3.x		–	
>>>DL Timeslot Information		1 to <maxnoOfTS>			–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
		S				
>>>>Time Slot	M		9.2.1.56		=	
>>>>Burst Type	M		9.2.3.1		=	
>>>>Midamble Shift	M		9.2.3.4		=	
>>>>TFCI Presence	M		9.2.1.55		=	
>>>>DL Code Information		1 to <maxnoOfD PCH>			=	
>>>>>DPCH ID	M		9.2.3.3		=	
>>>>>TDD Channelisation Code	M		9.2.3.8		=	
>>>>DPCH ID	M		9.2.3.3		-	
>>>>TDD Channelisation Code	M		9.2.3.8		-	
>>>>Burst Type	M		9.2.3.4		-	
>>>>Midamble Shift	M		9.2.3.4		-	
>>>>Time Slot	M		9.2.1.56		-	
>>>>TDD Physical Channel Offset	M		9.2.3.9		-	
>>>>Repetition Period	M		9.2.3.7		-	
>>>>Repetition Length	M		9.2.3.6		-	
>>>>TFCI Presence	M		9.2.1.55		-	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	-	
>>Non combining					YES	ignore
>>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	-	
>>>>>DCH ID	M		9.2.1.16		-	
>>>>>Binding ID	M		9.2.1.3		-	
>>>>>Transport Layer Address	M		9.2.1.62		-	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		-	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				-	
>>Priority Indicator		1..16		Provide Information for each priority class used	-	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	-	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULen gth>			-	
>>>>>MAC-c/sh SDU Length	M				-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0.. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>Neighbouring Cell Information		0..<maxnoof neighbouringR NCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbo urs>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxnoof TDDneighbo urs>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link
MaxnoofTS	Maximum number of Timeslots for a UE

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD Message

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLS.		
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		0..1			YES	ignore
>>DSCH Information		1 .. <Maxnoof DSCHs>			–	
>>>DSCH ID	M				–	
>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

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

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLS for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
RL Information Response		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		-	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		-	
>>UL DPCH to be added		0..<maxnoof DPCHs>0..1			GLOBAL ES	ignore
>>>Repetition Period	M		9.2.3.7		=	
>>>Repetition Length	M		9.2.3.6		=	
>>>TDD DPCH Offset	M		9.2.3.x		=	
>>>UL Timeslot Information		1 to <maxnoOf TS>			=	
>>>>Time Slot	M		9.2.1.56		=	
>>>>Burst Type	M		9.2.3.1		=	
>>>>Midamble Shift	M		9.2.3.4		=	
>>>>TFCI Presence	M		9.2.1.55		=	
>>>>UL Code Information		1 to <maxnoOf DPCHs>			=	
>>>>>DPCH ID	M		9.2.3.3		=	
>>>>>TDD Channelisation Code	M		9.2.3.8		=	
>>>>>DPCH ID	M		9.2.3.3		-	
>>>>>TDD Channelisation Code	M		9.2.3.8		-	
>>>>>Burst Type	M		9.2.3.1		-	
>>>>>Midamble Shift	M		9.2.3.4		-	
>>>>>Time Slot	M		9.2.1.56		-	
>>>>>TDD Physical Channel Offset	M		9.2.3.9		-	
>>>>>Repetition Period	M		9.2.3.7		-	
>>>>>Repetition Length	M		9.2.3.6		-	
>>>>>TFCI Presence	M		9.2.1.55		-	
>>UL DPCH to be modified		0..<maxnoof DPCHs>0..1			GLOBAL ES	ignore
>>>Repetition Period	O		9.2.3.7		=	
>>>Repetition Length	O		9.2.3.6		=	
>>>TDD DPCH Offset	O		9.2.3.x		=	
>>>UL Timeslot Information		0 to <maxnoOf TS>			=	
>>>>Time Slot	M		9.2.1.56		=	
>>>>Burst Type	O		9.2.3.1		=	
>>>>Midamble Shift	O		9.2.3.4		=	
>>>>TFCI Presence	O		9.2.1.55		=	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>UL Code Information		0 to <maxnoOfDPCH>			=	
>>>>DPCH ID	M		9.2.3.3		=	
>>>>TDD Channelisation Code	M		9.2.3.8		=	
>>>DPCH ID	M				-	
>>>TDD Channelisation Code	O				-	
>>>Burst Type	O				-	
>>>Midamble Shift	O				-	
>>>Time Slot	O				-	
>>>TDD Physical Channel Offset	O				-	
>>>Repetition Period	O				-	
>>>Repetition Length	O				-	
>>>TFCI Presence	O				-	
>>UL DPCH to be deleted		0..<maxnoofDPCHs>			GLOBAL	ignore
>>>DPCH ID	M				-	
>DL CCTrCH Information		0..<maxnoofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		-	
>>DL DPCH to be added		0..<maxnoofDPCHs>0..1			GLOBALY ES	ignore
>>>Repetition Period	M		9.2.3.7		=	
>>>Repetition Length	M		9.2.3.6		=	
>>>TDD DPCH Offset	M		9.2.3.x		=	
>>>DL Timeslot Information		0 to <maxnoOfTS>			=	
>>>>Time Slot	M		9.2.1.56		=	
>>>>Burst Type	M		9.2.3.1		=	
>>>>Midamble Shift	M		9.2.3.4		=	
>>>>TFCI Presence	M		9.2.1.55		=	
>>>>DL Code Information		0 to <maxnoOfDPCH>			=	
>>>>DPCH ID	M		9.2.3.3		=	
>>>>TDD Channelisation Code	M		9.2.3.8		=	
>>>DPCH ID	M		9.2.3.3		-	
>>>TDD Channelisation Code	M		9.2.3.8		-	
>>>Burst Type	M		9.2.3.1		-	
>>>Midamble Shift	M		9.2.3.4		-	
>>>Time Slot	M		9.2.1.56		-	
>>>TDD Physical Channel Offset	M		9.2.3.9		-	
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		-	
>>>TFCI Presence	M		9.2.1.55		-	
>>DL DPCH to be modified		0..<maxnoofDPCHs>0..1			GLOBALY ES	ignore
>>>Repetition Period	O		9.2.3.7		=	
>>>Repetition Length	O		9.2.3.6		=	
>>>TDD DPCH Offset	O		9.2.3.x		=	
>>>DL Timeslot Information		0 to <maxnoOfTS>			=	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>>>Time Slot	M		9.2.1.56		-	
>>>>Burst Type	O		9.2.3.1		-	
>>>>Midamble Shift	O		9.2.3.4		-	
>>>>TFCI Presence	O		9.2.1.55		-	
>>>>DL Code Information		<i>0 to <maxnoOfPCH></i>			-	
>>>>DPCH ID	M		9.2.3.3		-	
>>>>TDD Channelisation Code	M		9.2.3.8		-	
>>>DPCH ID	M				-	
>>>TDD Channelisation Code	O				-	
>>>Burst Type	O				-	
>>>Midamble Shift	O				-	
>>>Time Slot	O				-	
>>>TDD Physical Channel Offset	O				-	
>>> Repetition Period	O				-	
>>>Repetition Length	O				-	
>>>TFCI Presence	O				-	
>>DL DPCH to be deleted		<i>0..<maxnoofDPCHs></i>			GLOBAL	ignore
>>>DPCH ID	M				-	
>DCH Information Response		<i>0..<maxnoofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		-	
>>Binding ID	M		9.2.1.3		-	
>>Transport Layer Address	M		9.2.1.62		-	
>DSCH to be Added or Modified		<i>0 .. <MaxnoofDSCHs></i>			GLOBAL	ignore
>>DSCH ID	M				-	
>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	-	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	-	
>>>>MAC-c/sh SDU Length		<i>1..<MaxNbMAC-c/shSDULength></i>			-	
>>>>MAC-c/sh SDU Length	M				-	
>>Binding ID	M				-	
>>Transport Layer	M				-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Address						
>USCH to be Added or Modified		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.
MaxnoofTS	Maximum number of Timeslots for a UE

9.1.21 PHYSICAL CHANNEL RECONFIGURATION REQUEST

9.1.21.1 FDD Message

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

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

9.1.21.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information		1			YES	reject
>RL ID	M		9.2.1.49		–	
>UL CCTrCH Information		1.. <maxnoof CCTrCHs>			GLOBAL	reject
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno ofDPCHs> 1			EACHYES	notify
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.x		–	
>>>UL Timeslot Information		0 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Burst Type	O		9.2.3.1		–	
>>>>Midamble Shift	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
>>>>UL Code Information		0 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>>DPCH ID	M		9.2.3.3		–	
>>>>TDD Channelisation Code	O		9.2.3.8		–	
>>>>Burst Type	O		9.2.3.1		–	
>>>>Midamble Shift	O		9.2.3.4		–	
>>>>Time Slot	O		9.2.1.56		–	
>>>>TDD Physical Channel Offset	O		9.2.3.9		–	
>>>>Repetition Period	O		9.2.3.7		–	
>>>>Repetition Length	O		9.2.3.6		–	
>>>>TFCI Presence	O		9.2.1.55		–	
>DL CCTrCH Information		1..<maxno ofCCTrCH s>			GLOBAL	reject
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<Maxno ofDPCHs> 1			EACHYES	notify
>>>Repetition Period	O		9.2.3.7		–	
>>>Repetition Length	O		9.2.3.6		–	
>>>TDD DPCH Offset	O		9.2.3.x		–	
>>>DL Timeslot Information		0 to <maxnoOf TS			–	
>>>>Time Slot	M		9.2.1.56		–	
>>>>Burst Type	O		9.2.3.1		–	
>>>>Midamble Shift	O		9.2.3.4		–	
>>>>TFCI Presence	O		9.2.1.55		–	
>>>>DL Code Information		0 to <maxnoOf DPCH>			–	
>>>>>DPCH ID	M		9.2.3.3		–	
>>>>>TDD	M		9.2.3.8		–	

Channelisation Code						
>>>DPCH ID	M		9.2.3.3		-	
>>>TDD Channelisation Code	Q		9.2.3.8		-	
>>>Burst Type	Q		9.2.3.4		-	
>>>Midamble Shift	Q		9.2.3.4		-	
>>>Time Slot	Q		9.2.1.56		-	
>>>TDD Physical Channel Offset	Q		9.2.3.9		-	
>>>Repetition Period	Q		9.2.3.7		-	
>>>Repetition Length	Q		9.2.3.6		-	
>>>TFCI Presence	Q		9.2.1.55		-	

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

9.2.1.55 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [In TDD if it is present in the timeslot it will be included within the first DPCH listed.](#)

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

9.2.3.6 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel [see \[16\]](#).

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

9.2.3.7 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot K is assigned to a physical channel in the Radio Frame J , it is assigned to the same physical channel also in all the Radio Frames $J+n*Repetition\ Period$ (where n is an integer) [see \[16\]](#).

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

9.2.3.8 TDD Channelisation Code

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

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

9.2.3.9 TDD Physical Channel Offset

The TDD Physical Channel Offset represents the phase information for the allocation of a [non DPCH](#) physical channel. ($SFN-CFN \bmod Repetition\ Period = TDD\ Physical\ Channel\ Offset$) [see \[16\]](#).

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

9.2.3.10 TDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

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

9.2.3.11 TFCI Coding

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

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

9.2.3.12 Timeslot ISCP

Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [14].

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

9.2.3.13 Transport Format Management

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

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

9.2.3.14 USCH ID

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

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

9.2.3.x TDD DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The first range is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The second range is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offset for each DPCH in this CCTrCH shall be calculated by TDD DPCH Offset *mod* Repetition period, see [16].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>TDD DPCH Offset</u>			<u>CHOICE</u> <u>INTEGER</u> <u>(0..63) or</u> <u>INTEGER</u> <u>(0..255)</u>	

9.3.3 PDU Definitions

```

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

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

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopMode1-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    Closedlooptimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-Power,
    DL-ScramblingCode,

```

DPCHConstantValue,
DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
DSCH-ID,
FACH-InitialWindowSize,
SchedulingPriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
GA-AccessPointPosition,
GA-Cell,
IB-SG-POS,
IB-SG-REP,
IMSI,
ISCP,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,

RANAP-RelocationInformation,
 RB-Identity,
 RL-ID,
 RL-Set-ID,
 RNC-ID,
 RepetitionLength,
 RepetitionPeriod,
 ReportCharacteristics,
 S-FieldLength,
 S-RNTI,
 SCH-TimeSlot,
 SAI,
 SN,
 SSDD-CellID,
 SSDD-CellID-Length,
 SSDD-Indication,
 SSDD-SupportIndicator,
 STTD-Indicator,
 STTD-SupportIndicator,
 AdjustmentPeriod,
 ScaledAdjustmentRatio,
 MaxAdjustmentStep,
 ScramblingCodeNumber,
 SecondaryCCPCH-SlotFormat,
 SyncCase,
 TDD-ChannelisationCode,
TDD-DPCHOffset,
 TDD-PhysicalChannelOffset,
 TDD-TPC-DownlinkStepSize,
 TFCI-Coding,
 TFCI-Presence,
 TFCI-SignallingMode,
 TimeSlot,
 ToAWE,
 ToAWS,
 TransmitDiversityIndicator,
 TransportBearerID,
 TransportBearerRequestIndicator,
 TFCS,
 Transmission-Gap-Pattern-Sequence-Information,
 Transmission-Gap-Pattern-Sequence-Information-Response,
 TransportFormatManagement,
 TransportFormatSet,
 TransportLayerAddress,
 TrCH-SrcStatisticsDescr,
 TxDiversityIndicator,
 UARFCN,
 UC-ID,
 UL-DPCCH-SlotFormat,
 UL-InterferenceLevel,
 UL-SIR,

```

UL-FP-Mode,
UL-ScramblingCode,
URA-ID,
USCH-ID
FROM RNSAP-IEs

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

maxNoOfDSCHs,
maxNoOfRB,
maxNoOfUSCHs,
maxNrOfCCTrCHs,
maxNrOfDCHs,
maxNrOfTS,
maxNrOfDL-Codes,
maxNrOfDPCHs,
maxNrOfMACcshSDU-Length,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfSCCPCHs,
maxNrOfULTs,
maxNrOfDLTs,
maxRNCinURA-1,
maxNrOfNeighbouringRNCs,
maxNrOfFDDNeighboursPerRNC,
maxNrOfTDDNeighboursPerRNC,
maxFACHCountPlus1,
maxIBSEG,

id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-All-RLItem-DM-Rqst,
id-All-RLItem-Set-DM-Rqst,
id-AllowedQueuingTime,
id-BindingID,
id-C-ID,
id-C-RNTI,
id-CFN,
id-CN-CS-DomainIdentifier,

```


id-CN-PS-DomainIdentifier,
 id-Cause,
 id-CauseLevel-RL-AdditionFailureFDD,
 id-CauseLevel-RL-AdditionFailureTDD,
 id-CauseLevel-RL-ReconfFailure,
 id-CauseLevel-RL-SetupFailureFDD,
 id-CauseLevel-RL-SetupFailureTDD,
 id-CellItem-PagingRqst,
 id-CombiningItem-RL-AdditionFailureFDD,
 id-CombiningItem-RL-AdditionRspFDD,
 id-CombiningItem-RL-AdditionRspTDD,
 id-CombiningItem-RL-SetupFailureFDD,
 id-CombiningItem-RL-SetupRspFDD,
 id-CriticalityDiagnostics,
 id-D-RNTI,
 id-D-RNTI-ReleaseIndication,
 id-DCH-AddList-RL-ReconfPrepFDD,
 id-DCH-AddList-RL-ReconfPrepTDD,
 id-DCH-AddList-RL-ReconfRqstFDD,
 id-DCH-AddList-RL-ReconfRqstTDD,
 id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfRqstFDD,
 id-DCH-DeleteList-RL-ReconfRqstTDD,
 id-DCH-Information-RL-SetupRqstFDD,
 id-DCH-InformationList-RL-SetupRqstTDD,
 id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,
 id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,
 id-DCH-InformationResponseListIE-RL-ReconfRsp,
 id-DCH-ModifyList-RL-ReconfPrepFDD,
 id-DCH-ModifyList-RL-ReconfPrepTDD,
 id-DCH-ModifyList-RL-ReconfRqstFDD,
 id-DCH-ModifyList-RL-ReconfRqstTDD,
 id-DCH-InformationResponseListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
 id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
 id-DL-CodeInformationListIE-PhyChReconfRqstFDD,

id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
 id-DL-CodeInformationListIE-RL-AdditionRspFDD,
 id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
 id-DL-CodeInformationListIE-RL-ReconfResp,
 id-DL-CodeInformationListIE-RL-SetupFailureFDD,
 id-DL-DPCH-Information-RL-ReconfPrepFDD,
 id-DL-DPCH-Information-RL-SetupRqstFDD,
 id-DL-DPCH-Information-RL-ReconfRqstFDD,
 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
 id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
 id-DL-DPCH-InformationItem-RL-SetupRspTDD,
 id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
 id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
 id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
 id-DL-SIRTarget,
 id-DLReferencePower,
 id-DLReferencePowerList-DL-PC-Rqst,
 id-DL-ReferencePowerInformation-DL-PC-Rqst,
 id-DRXCycleLengthCoefficient,
 id-DedicatedMeasurementObjectType-DM-Rprt,
 id-DedicatedMeasurementObjectType-DM-Rqst,
 id-DedicatedMeasurementObjectType-DM-Rsp,
 id-DedicatedMeasurementType,
 id-DiversityIndicationItem-RL-AdditionFailureFDD,
 id-DiversityIndicationItem-RL-AdditionRspFDD,
 id-DiversityIndicationItem-RL-AdditionRspTDD,
 id-DiversityIndicationItem-RL-SetupFailureFDD,
 id-DiversityIndicationItem-RL-SetupRspFDD,
 id-DSCH-AddList-RL-ReconfPrepTDD,
 id-DSCH-Add-RL-ReconfPrepFDD,
 id-DSCH-DeleteList-RL-ReconfPrepTDD,
 id-DSCH-Delete-RL-ReconfPrepFDD,
 id-DSCH-InformationItem-RL-SetupRqstFDD,
 id-DSCH-InformationListIE-RL-AdditionRspTDD,
 id-DSCH-InformationListIEs-RL-SetupRspTDD,
 id-DSCH-InformationList-RL-SetupRqstTDD,
 id-DSCH-InformationResponseItem-RL-SetupRspFDD,
 id-DSCH-InformationResponseListIE-RL-AdditionFailureFDD,
 id-DSCH-InformationResponseListIE-RL-SetupFailureFDD,
 id-DSCH-Information-RL-SetupRqstFDD,
 id-DSCH-ModifyList-RL-ReconfPrepTDD,
 id-DSCH-Modify-RL-ReconfPrepFDD,
 id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD,
 id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD,
 id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspFDD,
 id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD,
 id-FACH-InfoForUESSelectedS-CCPCH-CTCH-ResourceRspFDD,
 id-FACH-InfoForUESSelectedS-CCPCH-CTCH-ResourceRspTDD,
 id-GA-AccessPointPosition,
 id-GA-Cell,
 id-GeneralCauseItem-RL-AdditionFailureFDD,

id-GeneralCauseItem-RL-AdditionFailureTDD,
 id-GeneralCauseItem-RL-ReconfFailure,
 id-GeneralCauseItem-RL-SetupFailureFDD,
 id-GeneralCauseItem-RL-SetupFailureTDD,
 id-IMSI,
 id-L3-Information,
 id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspFDD,
 id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD,
 id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspFDD,
 id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD,
 id-AdjustmentPeriod,
 id-MaxAdjustmentStep,
 id-MeasurementAvailableItem-DedicatedMeasurementReport,
 id-MeasurementnotAvailableItem-DedicatedMeasurementReport,
 id-MeasurementFilterCoefficient,
 id-MeasurementID,
 id-MultipleURAsIndicator,
 id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD,
 id-Neighbouring-CellInformationItem-RL-AdditionRsp,
 id-Neighbouring-CellInformationItem-RL-SetupFailureFDD,
 id-Neighbouring-CellInformationItem-RL-SetupRsp,
 id-NonCombiningItem-RL-AdditionFailureFDD,
 id-NonCombiningItem-RL-AdditionRspFDD,
 id-NonCombiningItem-RL-AdditionRspTDD,
 id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD,
 id-NonCombiningOrFirstRLItem-RL-SetupRspFDD,
 id-PagingArea-PagingRqst,
 id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspFDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspFDD,
 id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD,
 id-PowerAdjustmentType,
 id-ProcedureScope-DL-PC-Rqst,
 id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspFDD,
 id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD,
 id-RANAP-RelocationInformation,
 id-RL-Information-PhyChReconfRqstFDD,
 id-RL-Information-PhyChReconfRqstTDD,
 id-RL-Information-RL-AdditionRqstFDD,
 id-RL-Information-RL-AdditionRqstTDD,
 id-RL-Information-RL-DeletionRqst,
 id-RL-Information-RL-FailureInd,
 id-RL-Information-RL-ReconfPrepFDD,
 id-RL-Information-RL-RestoreInd,
 id-RL-Information-RL-SetupRqstFDD,
 id-RL-Information-RL-SetupRqstTDD,
 id-RL-InformationItem-DM-Rprt,
 id-RL-InformationItem-DM-Rqst,
 id-RL-InformationItem-DM-Rsp,
 id-RL-InformationItem-RL-SetupRqstFDD,
 id-RL-InformationList-RL-AdditionRqstFDD,

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

```

id-UC-ID,
id-Transmission-Gap-Pattern-Sequence-Information,
id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-InformationItem-PhyChReconfRqstTDD,
id-UL-DPCH-InformationItem-RL-AdditionRspTDD,
id-UL-DPCH-InformationItem-RL-SetupRspTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
id-UL-SIRTarget,
id-URA-ID,
id-URAItem-PagingRqst,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD,
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD,
id-UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
id-UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
id-USCH-AddList-RL-ReconfPrepTDD,
id-USCH-DeleteList-RL-ReconfPrepTDD,
id-USCH-InformationListIE-RL-AdditionRspTDD,
id-USCH-InformationListIEs-RL-SetupRspTDD,
id-USCH-InformationList-RL-SetupRqstTDD,
id-USCH-ModifyList-RL-ReconfPrepTDD,
id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD
FROM RNSAP-Constants;

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

```

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

```

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

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

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

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
    dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
    dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
    dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
    -- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
    iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
    timeslot            TimeSlot,

```

```

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

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

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

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

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

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

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

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

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

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

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

```



```

...
}
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tDD-DPCHOffset        TDD-DPCHOffset,
    uL-Timeslot-InformationList-RL-SetupRspTDD  UL-Timeslot-InformationList-RL-SetupRspTDD,
    iE-Extensions         ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF UL-Timeslot-InformationItem-RL-SetupRspTDD
UL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    burstType             BurstType,
    midambleShift        MidambleShift,
    tFCI-Presence         TFCI-Presence,
    uL-Code-InformationList-RL-SetupRspTDD  UL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions         ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}
UL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF UL-Code-InformationItem-RL-SetupRspTDD
UL-Code-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID               DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions         ProtocolExtensionContainer { {UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}
UL-Code-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-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-Container DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }

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

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

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

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

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

```

```

DL-Timeslot-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-Timeslot-InformationItem-RL-SetupRspTDD

DL-Timeslot-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType,
    midambleShift            MidambleShift,
    tFCI-Presence            TFCI-Presence,
    dL-Code-InformationList-RL-SetupRspTDD    DL-Code-InformationList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

DL-Code-InformationList-RL-SetupRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-InformationItem-RL-SetupRspTDD

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  usch-ID                USCH-ID,
  bindingID              BindingID,

```

```
transportLayerAddress      TransportLayerAddress,
transportFormatManagement  TransportFormatManagement,
iE-Extensions              ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

```

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

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

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

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition
                        GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot
                        UL-InterferenceList-RL-AdditionRspTDD,
    ul-CCTrCHInformation
                        UL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    dl-CCTrCHInformation
                        DL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    diversityIndication
                        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR           UL-SIR,
    maxUL-SIR           UL-SIR,
    maximumAllowedULTxPower
                        MaximumAllowedULTxPower,
    dSCH-InformationResponse
                        DSCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    uSCH-InformationResponse
                        USCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,
    neighbouring-CellInformationList
                        Neighbouring-CellInformationList-RL-AdditionRsp    OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

```

```

}
...
}
UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}
UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE mandatory
},
...
}
UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD
UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
cCTrCH-ID CCTrCH-ID,
ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRspTDD OPTIONAL,
iE-Extensions ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Container DPCH-IE-ContainerList-{ {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory },
...
}
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
dpch-ID DPCH-ID,
tDD-ChannelisationCode TDD-ChannelisationCode,
burstType BurstType,
midambleShift MidambleShift,
timeSlot TimeSlot,
tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tFCI-Presence TFCI-Presence,
iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

}

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

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

UL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...) ) OF UL-Timeslot-InformationItem-RL-AdditionRspTDD

UL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    burstType             BurstType,
    midambleShift         MidambleShift,
    tFCI-Presence         TFCI-Presence,
    uL-Code-InformationList-RL-AdditionRspTDD      UL-Code-InformationList-RL-AdditionRspTDD,
    iE-Extensions         ProtocolExtensionContainer { {UL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...) ) OF UL-Code-InformationItem-RL-AdditionRspTDD

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

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

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-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-Container DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

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

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

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

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

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

```

DL-Timeslot-InformationList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfTS,...) OF DL-Timeslot-InformationItem-RL-AdditionRspTDD

```
DL-Timeslot-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
  timeSlot           TimeSlot,
  burstType          BurstType,
  midambleShift      MidambleShift,
  tFCI-Presence      TFCI-Presence,
  dL-Code-InformationList-RL-AdditionRspTDD DL-Code-InformationList-RL-AdditionRspTDD,
  iE-Extensions      ProtocolExtensionContainer { {DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}
```

DL-Timeslot-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
...
}
```

DL-Code-InformationList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs,...) OF DL-Code-InformationItem-RL-AdditionRspTDD

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

DL-Code-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
...
}
```

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

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

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

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

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

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {

```

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

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

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

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

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

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

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

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

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

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

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

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

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator       PriorityIndicator-RL-AdditionRspTDD,

```

```

diversityIndication    DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
-- diversityIndication present, if CHOICE = nonCombining
iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

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

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

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

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

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

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

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

```

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

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

```

-- *****
--
-- RADIO LINK 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,
    ul-CCTrCH-Information      UL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dl-CCTrCH-Information      DL-CCTrCH-InformationList-RL-ReconfReadyTDD OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfReadyTDD OPTIONAL,
    dSCHsToBeAddedOrModified   DSCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    uSCHsToBeAddedOrModified   USCHToBeAddedOrModified-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

```

```

    ul-DPCH-DeleteInformation      UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD      OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dpch-Id DPCH ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShift MidambleShift,
    timeSlot TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tFCI-Presence TFCI-Presence,
    iE-Extensions ProtocolExtensionContainer { {UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

UL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD

```

```

UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType,
    midambleShift            MidambleShift,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-RL-ReconfReadyTDD    UL-Code-InformationAddList-RL-ReconfReadyTDD,
    iE-Extensions            ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

UL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF UL-Code-InformationAddItem-RL-ReconfReadyTDD

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

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

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

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

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

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

```



```

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

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

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

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

UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                  TimeSlot,
    burstType                 BurstType          OPTIONAL,
    midambleShift             MidambleShift      OPTIONAL,
    tFCI-Presence              TFCI-Presence      OPTIONAL,
    uL-Code-InformationModifyList-RL-ReconfReadyTDD  UL-Code-InformationModifyList-RL-ReconfReadyTDD  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD PRESENCE
    mandatory },
    ...
}

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

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

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

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

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

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

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

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

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

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

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

```

```

dPCH-ID DPCCH-ID,
tDD-ChannelisationCode TDD-ChannelisationCode,
burstType BurstType,
midambleShift MidambleShift,
timeSlot TimeSlot,
tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tFCI-Presence TFCI-Presence,
iE-Extensions ProtocolExtensionContainer { {DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

DL-Timeslot-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfTS,...)) OF DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD

DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
timeSlot TimeSlot,
burstType BurstType,
midambleShift MidambleShift,
tFCI-Presence TFCI-Presence,
dL-Code-InformationAddList-RL-ReconfReadyTDD DL-Code-InformationAddList-RL-ReconfReadyTDD,
iE-Extensions ProtocolExtensionContainer { {DL-Timeslot-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
...
}

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

DL-Code-InformationAddList-RL-ReconfReadyTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-InformationAddItem-RL-ReconfReadyTDD

DL-Code-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
dPCH-ID DPCCH-ID,
tDD-ChannelisationCode TDD-ChannelisationCode,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-Code-InformationAddItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE {
    repetitionPeriod       RepetitionPeriod OPTIONAL,
    repetitionLength       RepetitionLength OPTIONAL,
    tDD-DPCHOffset         TDD-DPCHOffset OPTIONAL,
    dL-Timeslot-InformationModifyList-RL-ReconfReadyTDD DL-Timeslot-InformationModifyList-RL-ReconfReadyTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

```

```

DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    burstType                BurstType                OPTIONAL,
    midambleShift            MidambleShift            OPTIONAL,
    tFCI-Presence            TFCI-Presence            OPTIONAL,
    dL-Code-InformationModifyList-RL-ReconfReadyTDD    DL-Code-InformationModifyList-RL-ReconfReadyTDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-Timeslot-InformationModifyItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

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

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

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

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

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

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

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

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

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

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

DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-DCH-InformationResponseListIE-RL-ReconfReadyTDD      CRITICALITY ignore  TYPE DCH-InformationResponseListIE-RL-ReconfReadyTDD  PRESENCE
mandatory  },
    ...
}

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

```



```

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

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

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

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

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

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

UL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  burstType BurstType,
  midambleShift MidambleShift,
  tFCI-Presence TFCI-Presence,
  uL-Code-InformationList-PhyChReconfRqstTDD UL-Code-InformationList-PhyChReconfRqstTDD,
  iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

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

```

```

}
UL-Code-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...) ) OF UL-Code-InformationItem-PhyChReconfRqstTDD
UL-Code-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer { {UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
UL-Code-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-CCTrCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container { {DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD} }
DL-CCTrCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD CRITICALITY reject TYPE DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD PRESENCE
  mandatory } ,
  ...
}
DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-PhyChReconfRqstTDD
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  dl-DPCH-Information DL-DPCH-InformationList-PhyChReconfRqstTDD,
  iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-CCTrCH-InformationItem-PhyChReconfRqstTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-DPCH-InformationList-PhyChReconfRqstTDD ::= ProtocolIE-Container DPCH-IE-ContainerList-{{DL-DPCH-InformationListIEs-PhyChReconfRqstTDD}}
DL-DPCH-InformationListIEs-PhyChReconfRqstTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-PhyChReconfRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-PhyChReconfRqstTDD PRESENCE mandatory } ,
  ...
}
DL-DPCH-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  burstType BurstType OPTIONAL,
  midambleShift MidambleShift OPTIONAL,
  timeSlot TimeSlot OPTIONAL,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionPeriod RepetitionPeriod OPTIONAL,
}

```

```

repetitionLength          RepetitionLength          OPTIONAL,
tFCI-Presence             TFCI-Presence             OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { {DL-DPCH-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

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

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

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

DL-Timeslot-InformationItem-PhyChReconfRqstTDD ::= SEQUENCE {
timeSlot                  TimeSlot,
burstType                 BurstType,
midambleShift             MidambleShift,
tFCI-Presence             TFCI-Presence,
dL-Code-InformationList-PhyChReconfRqstTDD DL-Code-InformationList-PhyChReconfRqstTDD,
iE-Extensions             ProtocolExtensionContainer { {DL-Timeslot-InformationItem-PhyChReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

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

DL-Code-InformationList-PhyChReconfRqstTDD ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs,...)) OF DL-Code-InformationItem-PhyChReconfRqstTDD

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

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

```

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

```

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

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

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

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

```

```

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

maxCodeNumComp-1          INTEGER ::= 255
maxRateMatching           INTEGER ::= 256
maxNoCodeGroups           INTEGER ::= 256
maxNoOfDSCHs              INTEGER ::= 10
maxNoOfRB                  INTEGER ::= 32
maxNoOfUSCHs              INTEGER ::= 10
maxNoTFCIGroups           INTEGER ::= 256
maxNrOfTFCs               INTEGER ::= 1024
maxNrOfTFs                 INTEGER ::= 32
maxNrOfCCTrCHs            INTEGER ::= 16
maxNrOfDCHs                INTEGER ::= 128
maxNrOfDL-Codes            INTEGER ::= 8
maxNrOfDPCHs               INTEGER ::= 240
maxNrOfErrors              INTEGER ::= 256
maxNrOfMACcshSDU-Length   INTEGER ::= 16
maxNrOfPoints              INTEGER ::= 15
maxNrOfRLs                 INTEGER ::= 16
maxNrOfRLSets              INTEGER ::= maxNrOfRLs
maxNrOfRLs-1               INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2               INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfSCCPCHs             INTEGER ::= 10
maxNrOfULTs                INTEGER ::= 15
maxNrOfDLTs                INTEGER ::= 15
maxRNCinURA-1             INTEGER ::= 15
maxTTI-Count               INTEGER ::= 4
maxCTFC                    INTEGER ::= 16777215
maxNrOfNeighbouringRNCs    INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC INTEGER ::= 256
maxFACHCountPlus1         INTEGER ::= 10
maxIBSEG                   INTEGER ::= 16
maxTFCI1Combs              INTEGER ::= 512
maxTFCI2Combs              INTEGER ::= 1024
maxTFCI2Combs-1           INTEGER ::= 1023
maxTGPS                    INTEGER ::= 6
maxNrOfTS                  INTEGER ::= 15

```

CHANGE REQUEST

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

25.423 CR 151r3

Current Version: 3.2.0

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

↑ CR number as allocated by MCC support team

For submission to: TSG RAN#9

list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

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

Source: R-WG3 **Date:** August 24, 2000

Subject: Rules for RNSAP on how IEs become known and clarification on EP knowledge

Work item:

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

Reason for change:

If rules on how IEs or IE groups shall become comprehended for each standard version is not specified, then the criticality handling and non support handling may be mixed.

In R3#13 it was discussed and agreed in principle that a set of rules for how IEs become known should be added to the AP specifications. The proposal for such rules was presented in Tdoc 1441.

This CR presents corresponding changes to RNSAP following those discussions and decisions for rules on knowledge of IEs, and also clarifies the situation on the knowledge of EPs.

Clauses affected: 10.3.2

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

Other comments:



help.doc

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

10 Handling of Unknown, Unforeseen and Erroneous Protocol Data

10.1 General

Protocol Error cases can be divided into three classes:

1. Transfer Syntax Error;
2. Abstract Syntax Error;
3. Logical Error.

Protocol errors can occur in the following functions within a receiving node.

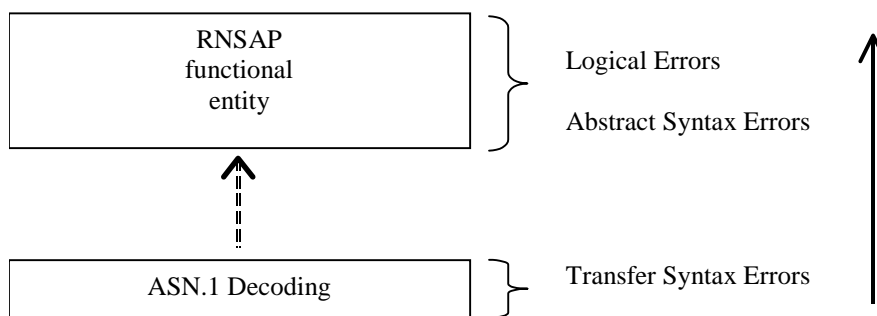


Figure 34: Protocol Errors in RNSAP

10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error;
- violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, then this case will be handled as a transfer syntax error;
- missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message);
- wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

10.3 Abstract Syntax Error

10.3.1 General

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

1. receives IEs or IE groups that cannot be understood (unknown IE id);
2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);

- 3 does not receive IEs or IE groups but according to the specified presence of the concerning object, the IEs or IE groups should have been present in the received message

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5.

10.3.2 Criticality Information

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

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

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

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

The following rules restrict sets a restriction to when a receiving entity may consider on when an IE, or an IE group or an EP can be considered not comprehended (not implemented), and when action based on criticality information is applicable:

- 1.- IE or IE group: When one new or modified IE or IE group is implemented for one EP from one a standard versionreleaseversion of a standard, then other new or modified IEs or IE groups specified for that EP in that standard versionreleaseversion shall be considered comprehended by become known to the a receiving entity (some may still remain unsupported). IEs or IE groups that can be claimed not comprehended originate from such a standard version that is not supported at all for that EP.

Note that no such this restriction is not applicable to a sending entity for constructing messages.

2. EP: Also note that no such rule applies for knowledge of EPs (procedure codes), i.e. the knowledgecomprehension of different EPs within a standard versionreleaseversion or between different standard versionsreleasesversions is not mandated. Any EP that is not supported mayean be considered unknownnot comprehended, (action taken based on criticality), even if another EP from that standard versionreleaseversion is supportedcomprehended.; and action based on criticality shall be applied.

10.3.3 Presence Information

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

The presence field of the indicated classes supports three values:

1. Optional;
2. Conditional;
3. Mandatory.

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

10.3.4 Not Comprehended IE/IE group

10.3.4.1 Procedure Code

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

Reject IE:

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

Ignore IE and Notify Sender:

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

Ignore IE:

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

10.3.4.2 IEs other than the Procedure Code

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

Reject IE:

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

Ignore IE and Notify Sender:

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

Ignore IE:

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

comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

10.3.5 Missing IE or IE group

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

Reject IE:

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

Ignore IE and Notify Sender:

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

Ignore IE:

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

10.3.6 Logical Error

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

Class 1:

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

Protocol Causes:

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

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

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

Class 2:

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

CHANGE REQUEST

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

25.423 CR 152r1

Current Version: **3.2.0**

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

↑ CR number as allocated by MCC support team

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

list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

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

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

July 2000

Subject:

Maximum/minimum downlink power settings

Work item:

Category:

(only one category shall be marked with an X)

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

Release:

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

Reason for change:

To introduce maximum and minimum downlink power IEs in RNSAP. The purpose is that the DRNC shall inform the SRNC about the allowed downlink power range in the radio link setup/addition response (and failure) and reconfiguration response/ready messages.

In case the the downlink power value set by the SRNC is outside the power range, i.e. radio link setup request or downlink power control request messages, the DRNC shall simply apply the maximum (or minimum) downlink power without causing any radio link failure.

The use of max/min downlink power parameters are very similar to the maximum/minimum uplink SIR feature already included in 25.423.

Clauses affected:

8.3.1.2, 8.3.2.2, 8.3.4.2, 8.3.7.2, 8.3.15, 9.1.4, 9.1.5.1, 9.1.7, 9.1.8.1, 9.1.12, 9.1.17, and 9.3.3

Other specs affected:

Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	TS 25.433: CR176
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments:



help.doc

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

8.3.1.2 Successful Operation

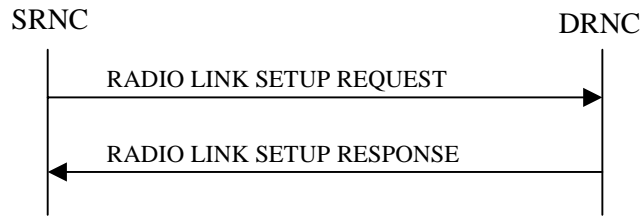


Figure 1: Radio Link Setup procedure: Successful Operation

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

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

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

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

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

[FDD - If the *Initial DL TX Power IE* and *Uplink SIR Target IE* are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value. 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 *Time Slot ISCP IE* are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

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

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

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

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

available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].

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

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

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

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

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

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

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

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

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

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

[TDD – If the DSCH Information is included in the RADIO LINK SETUP REQUEST message, the DRNC shall send a valid set of *Scheduling Priority* IE and *MAC-c/sh SDU lengths* IE parameters to the SRNC in the message RADIO LINK SETUP RESPONSE message].

[FDD - If the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not present in the RADIO LINK SETUP REQUEST message, then DRNC shall include the suggested initial Uplink and Downlink SIR Targets in the RADIO LINK SETUP RESPONSE message.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the UE context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the Diversity Indication that the RL is combined with another RL. In this case the Reference *RL ID* IE shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH and DSCH of the RL in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL.]

In case of a set of coordinated DCHs requiring a new transport bearer on Iur the *Binding Identifier* IE and the *Transport Layer Address* IE shall be included only for one of the DCH in the set of co-ordinated DCHs.

[FDD - Irrespective of SSSDT activation, the DRNS shall include in the RADIO LINK SETUP RESPONSE message an indication concerning the capability to support SSSDT on this RL. Only if the RADIO LINK SETUP REQUEST message requested SSSDT activation and the RADIO LINK SETUP RESPONSE message indicates that the SSSDT capability is supported for this RL, SSSDT is activated in the DRNS.]

[FDD – If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

The DRNS shall also provide the SRNC with the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD- Primary Scrambling Code], the [TDD-Cell Parameter ID, the Sync Case, the SCH Time Slot information, the Block STTD Indicator] of the neighbouring cells to the cell(s) where the radio link(s) are added. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value] and Frame Offset of the neighbouring cell.

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC and CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator* IE and Tx diversity capability (i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE) in *Per FDD Cell Information* IE].

If there was no UE context for this UE in the DRNS before the RADIO LINK SETUP REQUEST message was received the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the *D-RNTI* IE in the RADIO LINK SETUP RESPONSE message.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [3].

[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE].

[FDD- If the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Information Response* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

8.3.2.2 Successful Operation

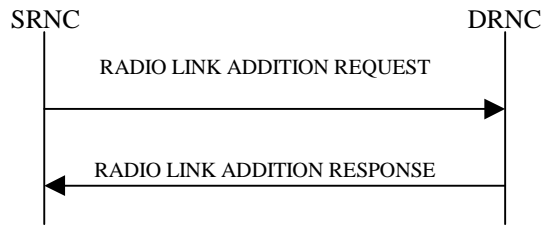


Figure 2: Radio Link Addition procedure: Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the SRNC to the DRNC.

Upon reception, the DRNS shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The *Diversity Control Field* IE indicates for each RL whether the DRNS shall combine the new RL with existing RL(s) or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When a new RL is to be combined the DRNS shall choose which RL(s) to combine it with.

[FDD - If the *Primary CCPCH Ec/No* IE measured by the UE is included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power. If the *Primary CCPCH Ec/No* IE is not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[TDD - If the *Primary CCPCH RSCP* IE and/or the *Time Slot ISCP* IE are included in the RADIO LINK ADDITION REQUEST message, the DRNS shall use them in the calculation of the Initial DL TX Power. If the *Primary CCPCH RSCP* IE and *Time slot ISCP* IE are not present, the DRNS sets the Initial DL TX Power accordingly to the power used by the existing RLs.]

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with DPC_MODE=0 and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved for that RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3)].

[FDD - The DRNS shall use the provided Uplink SIR Target value as the current target for the inner-loop power control.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, SSDT may be activated for the concerned new RL, with the indicated SSDT Cell Identity used for that RL.]

The DRNS shall activate any feedback mode diversity according to the received settings.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to immediately activate all ongoing Transmission Gap Pattern Sequence(s) also in the new RL. For each sequence the *TGCFN* refers to latest passed CFN with that value. If *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the on going CM pattern in the new RLs, but the on going pattern in the existing RL are maintained.]

If all requested RLs are successfully added, the DRNC shall respond with a RADIO LINK ADDITION RESPONSE message.

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the UE context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

In the case of combining an RL with existing RL(s) the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be included for only one of the co-ordinated DCHs.

[TDD - If the radio link to be added includes a DSCH, the DRNC shall send a set of valid *Scheduling Priority* IE and *MAC-c/sh SDULength* IE parameters to the SRNC in the message RADIO LINK ADDITION RESPONSE message.]

[FDD - Irrespective of SSdT activation, the DRNS shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSdT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSdT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSdT capability is supported for this RL, SSdT is activated in the DRNS.]

[FDD – If the cell in which the RL is being added is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK ADDITION RESPONSE message indicating the Closed loop timing adjustment mode of the cell.]

For any cell neighbouring of a cell in which a RL was added, the DRNC shall provide in the RADIO LINK ADDITION RESPONSE message the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD - Primary Scrambling Code], the [TDD – Cell Parameter Id, the Sync Case, the SCH Time slot information, the Block STTD Indicator] and the node identification of CN nodes connected to the RNC controlling the neighbouring cell if the neighbouring cell is not controlled by the DRNC. In addition, if the information is available, the DRNC shall also provide the [FDD- *Primary CPICH Power* IE]/[TDD - *PCCPCH Power* IE, *DPCH Constant Value* IE], *Frame Offset* IE, [FDD – *Tx Diversity Indicator* IE, and Tx diversity capability, i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE] of the neighbouring cell.

The DRNC shall also provide the configured uplink Maximum SIR and UL Minimum SIR for every new RL to the SRNC in the RADIO LINK ADDITION RESPONSE message. These values are taken into consideration by DRNS admission control and shall be used by the SRNC as limits for the UL inner-loop power control target.

The DRNC shall 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 Information Response* IE in the RADIO LINK ADDITION RESPONSE message to indicate the Scrambling code change method that it selects for each channelisation code]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the added RLs in the RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].

[FDD - If the UE has been allocated one or several DCH controlled by DRAC (*DRAC Control* IE was set to "requested" in the RADIO LINK ADDITION REQUEST message for at least one DCH) and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE.].

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the DRNC cells supporting the radio links of the RL Set].

8.3.4.2 Successful Operation

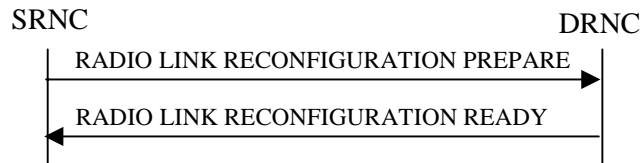


Figure 3: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the DRNC.

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allowed Queuing Time* IE the DRNS may queue the request before providing a response to the SRNC.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allocation/Retention Priority* IE for a DCH to be modified, the DRNS should use this information when reserving resources for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a DCHs to *Add IE* with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add IE* as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

[FDD - The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the DRNS shall apply the new Uplink DPCCH Structure to the new configuration.]

FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS* IE, *TFCI coding* IE or *Puncture limit* IE the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD –The DRNC shall include all of the DPCH that have been modified and any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE which have been modified in the DPCH to be modified in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

[TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added, the DRNC shall include this CCTrCH in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

If the requested modifications are allowed by the DRNS, and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s) it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION READY message.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH Information Response* IE group shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information IE* is set to 'SF/2', the DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* to the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

DSCH Addition/Modification/Deletion:

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address IE* and the *Binding ID IE* of the DSCHs being added or modified.

USCH Addition/Modification/Deletion [TDD]

The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message. to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address IE* and the *Binding ID IE* of the USCHs being added or modified.

8.3.7.2 Successful Operation

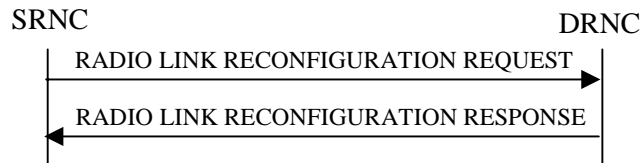


Figure 4: Unsynchronised Radio Link Reconfiguration procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the DRNC.

Upon reception, the DRNS shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request before providing a response to the SRNC.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Allocation/Retention Priority* IE for a DCH to be modified, the DRNS should use this new value when reserving resources for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]

DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a DCHs to *Add IE* with multiple DCH Specific Info IEs then the DRNS shall treat the DCHs in the DCHs to *Add IE* as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can all of them in the new configuration.

For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector IE* set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector IE* set to "selected" shall be used for the QE in the UL data frames, ref. [4]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector IE* set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].

The DRNS should store the *Frame Handling Priority IE* received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode IE* for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWS IE* for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWE IE* for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control IE* is set to "requested" in the RADIO LINK RECONFIGURATION REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info IE* and the *Reference to System Information blocks IE* to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS IE* for the UL, the DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *TFCS IE* for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase IE* and the IE is set to 'Used', the DRNS shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes UL/DL CCTrCH to be modified the DRNC shall apply the included *TFCS IE* as the new value.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

If the requested modifications are allowed by the DRNS, the DRNS has successfully allocated the required resources, and changed to the new configuration it shall respond to the SRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the IEs *Maximum Uplink SIR* and *Minimum Uplink SIR* for each Radio Link in the RADIO LINK RECONFIGURATION RESPONSE message.

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power IE* and *Minimum DL TX Power IE* respectively in the RADIO LINK RECONFIGURATION RESPONSE message.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH Information Response* IE group shall be included only for one of the DCH in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNS shall include the *DL Code Information* IE group in the RADIO LINK RECONFIGURATION RESPONSE message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not.]

8.3.15.2 Successful Operation



Figure 5: Downlink Power Control procedure, Successful Operation

The Downlink Power Control procedure is initiated by the SRNC sending a DL POWER CONTROL REQUEST message to the DRNC.

The *Power Adjustment Type* IE defines the characteristic of the power adjustment.

If the value of the *Power Adjustment Type* IE is "Common", the DRNC shall perform the power adjustment (see below) for all radio links for the UE context using a common DL reference power level.

If the value of the *Power Adjustment Type* IE is "Individual", the DRNC shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Power per RL.

If the value of the *Power Adjustment Type* IE is "None", the DRNS shall suspend on going power adjustments for all radio links for the UE context.

Power Adjustment

The power balancing adjustment superimposed on the inner loop power control adjustment (see Ref. [10]) shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$

where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the *Adjustment Period* IE, P_{ref} is the value of the *DL Reference Power* IE, P_{init} is the power at the beginning of the adjustment period and r is given by the *Adjustment Ratio* IE.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the *Max Adjustment Step* IE and the DL TX power range set by the DRNC.

The power adjustments shall be repeated for every adjustment period, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		=	
>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell		0..<maxno				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Information		<i>ofFDDneig hbours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>Per TDD Cell Information		<i>0..<maxno ofTDDneig hbours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		=	
>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>UL CCTrCH Information		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighboringRNCs >			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneighbours>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
CHOICE <i>cause level</i>						
> <i>General</i>					Yes	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					Yes	ignore
>> Unsuccessful RL Information Response		1...<maxno ofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>> Successful RL Information Response		0..<maxno ofRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>> DL Code Information		1..<maxno ofDL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>Diversity Indication	M		9.2.2.7		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>> <i>Combining</i>					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>>> <i>Non Combining First RL</i>					YES	ignore
>>>>> DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				-	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		=	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>>>DSCH Information Response		0..<maxno ofDSCHs>			GLOBAL	ignore
>>>>DSCH ID	M				-	
>>>>Binding ID	M				-	
>>>>Transport Layer Address	M				-	
>>>Neighbouring Cell Information	O	0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		-	
>>>>CN PS Domain Identifier	O		9.2.1.12		-	
>>>>CN CS Domain Identifier	O		9.2.1.11		-	
>>>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>			-	
>>>>>C-Id	M		9.2.1.6		-	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	-	
>>>>>Frame Offset	O		9.2.1.30		-	
>>>>>Primary Scrambling Code	M		9.2.1.45		-	
>>>>>Primary CPICH Power	O		9.2.1.44		-	
>>>>>Cell Individual Offset	O		9.2.1.7		-	
>>>>>Tx Diversity Indicator	M		9.2.2.50		-	
>>>>>STTD Support Indicator	O		9.2.2.45		-	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		-	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		-	
>>>>Per TDD Cell Information		0..<maxno ofTDDneig hbours>			-	
>>>>>C-Id	M		9.2.1.6		-	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	-	
>>>>>Frame Offset	O		9.2.1.30		-	
>>>>>Cell Parameter ID	M		9.2.1.8		-	
>>>>>Sync Case	M		9.2.1.54		-	
>>>>>Time Slot	C-Case1		9.2.1.56		-	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		-	
>>>>>Block STTD Indicator	M				-	
>>>>>Cell Individual Offset	O		9.2.1.7		-	
>>>>>DPCH Constant Value	O		9.2.1.23		-	
>>>>>PCCPCH Power	O		9.2.1.43		-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	Ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		=	
>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>Maximum DL TX Power	M		DL Power 9.2.2.10		=	
>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULength>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>Neighbouring Cell Information		0..<maxnoof neighbouringRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			–	
>>>C-Id	M		9.2.1.6		–	
>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>>Successful RL Information Response		0..<maxnoof RLS-2>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>>DL Code Information		1..<maxnoof DL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>Diversity Indication	M		9.2.2.7		YES	ignore
>>>CHOICE <i>diversity indication</i>						
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>>>Non combining					YES	ignore
>>>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				–	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>Maximum DL TX Power	M		DL Power 9.2.2.10		=	
>>>Minimum DL TX Power	M		DL Power 9.2.2.10		=	
>>>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>>Per FDD Cell Information		<i>0..<maxnoof FDDneighbors></i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7			
>>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>>STTD Support Indicator	O		9.2.2.45			
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbors></i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information

9.1.12 RADIO LINK RECONFIGURATION READY

9.1.12.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		0..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	<u>O</u>		<u>DL Power</u> <u>9.2.2.10</u>		=	
>Minimum DL TX Power	<u>O</u>		<u>DL Power</u> <u>9.2.2.10</u>		=	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>Downlink Code Information		0..<maxno ofDLCode s>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>DCH Information Response		<i>0..<maxno ofDCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		0..1			YES	ignore
>>DSCH Information		1 .. <Maxnoof DSCHs>			–	
>>>DSCH ID	M				–	
>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>Binding ID	M				–	
>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.12.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		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	<u>O</u>		<u>DL Power</u> 9.2.2.10		=	
>Minimum DL TX Power	<u>O</u>		<u>DL Power</u> 9.2.2.10		=	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH to be added		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>>UL DPCH to be modified		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	O				–	
>>>Burst Type	O				–	
>>>Midamble Shift	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>>Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
>>UL DPCH to be deleted		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH to be added		0..<maxnoof DPCHs>			GLOBAL	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>> Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>DL DPCH to be modified		<i>0..<maxnoof DPCHs></i>			GLOBAL	ignore
>>>DPCH ID	M				–	
>>>TDD Channelisation Code	O				–	
>>>Burst Type	O				–	
>>>Midamble Shift	O				–	
>>>Time Slot	O				–	
>>>TDD Physical Channel Offset	O				–	
>>> Repetition Period	O				–	
>>>Repetition Length	O				–	
>>>TFCI Presence	O				–	
>>DL DPCH to be deleted		<i>0..<maxnoof DPCHs></i>			GLOBAL	ignore
>>>DPCH ID	M				–	
>DCH Information Response		<i>0..<maxnoof DCHs></i>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH to be Added or Modified		<i>0.. <Maxnoof DSCHs></i>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		<i>1..<MaxNbMAC-c/shSDULength></i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>USCH to be Added or Modified		<i>0.. <Maxnoof USCHs></i>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH.

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		0..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>Maximum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	O		Uplink SIR 9.2.1.69		–	
>Maximum DL TX Power	<u>O</u>		<u>DL Power</u> <u>9.2.2.10</u>		<u>=</u>	
>Minimum DL TX Power	<u>O</u>		<u>DL Power</u> <u>9.2.2.10</u>		<u>=</u>	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI Presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACH Hcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.21		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included. The IE group shall be included only once per DCH per set of combined RLs.	GLOBAL	ignore
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DL Code Information		0.. <maxnoof DLCodes			GLOBAL	ignore
>>DL Scrambling Code	M				–	
>>FDD DL Channelisation Code Number	M				–	
>>Transmission Gap Pattern Sequence Information Response	M				–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofRLs	Maximum number of RLs for a UE.
MaxnoofDLCodes	Maximum number of Downlink Channelisation Codes.
MaxSysinfoFACHCount	Maximum number of references to system information blocks on the FACH
MaxIBSEG	Maximum number of segments for one Information Block

9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

<Editor's note: Parts of the ASN.1 module is skipped.>

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
    { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID          RL-ID,
```

```

rL-Set-ID                RL-Set-ID,
sAI                      SAI,
gA-Cell                  GA-Cell    OPTIONAL,
gA-AccessPointPosition  GA-AccessPointPosition  OPTIONAL,
ul-InterferenceLevel    UL-InterferenceLevel,
secondary-CCPCH-Info    Secondary-CCPCH-Info-RL-SetupRspFDD  OPTIONAL,
dl-CodeInformation      DL-CodeInformationList-RL-SetupRspFDD,
diversityIndication     DiversityIndication-RL-SetupRspFDD,
-- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
-- the tabular message format in subclause 9.1.
sSDT-SupportIndicator   SSDT-SupportIndicator,
maxUL-SIR               UL-SIR,
minUL-SIR               UL-SIR,
closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode  OPTIONAL,
maximumAllowedULTxPower MaximumAllowedULTxPower,
maximumDLTxPower        DL-Power,
minimumDLTxPower        DL-Power,
dSCHInformationResponse DSCH-InformationResponse-RL-SetupRspFDD  OPTIONAL,
neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
iE-Extensions           ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEQUENCE {
fDD-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
dl-ScramblingCode       DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
dl-TFCS                 TFCS,
secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
tFCI-Presence           TFCI-Presence  OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
multiplexingPosition    MultiplexingPosition,
sTTD-Indicator          STTD-Indicator,
fACH-PCH-InformationList FACH-PCH-InformationList-RL-SetupRspFDD,
schedulingInformation   SchedulingInformation-RL-SetupRspFDD,
iE-Extensions           ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-SetupRspFDD

FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
transportFormatSet      TransportFormatSet,

```

```

    iE-Extensions          ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
    iB-SG-Rep              IB-SG-REP,
    segmentInformationList SegmentInformationList-RL-SetupRspFDD,
    iE-Extensions          ProtocolExtensionContainer { { SchedulingInformation-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-SetupRspFDD

SegmentInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    iB-SG-POS              IB-SG-POS,
    iE-Extensions          ProtocolExtensionContainer { { SegmentInformationItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupRspFDD

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dl-ScramblingCode      DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

```

```

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL    NonCombiningOrFirstRL-RL-SetupRspFDD,
    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE NonCombiningOrFirstRLItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-SetupRspFDD    DCH-InformationResponseList-RL-SetupRspFDD    OPTIONAL,
    iE-Extensions                            ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD

DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                 BindingID,
    transportLayerAddress     TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```



```

}
...
}
DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE  DSCH-InformationResponseItem-RL-SetupRspFDD  PRESENCE  mandatory
},
  ...
}
DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dschInformation      DSCHInformation-RL-SetupRspFDD,
  pdSCHCodeMapping    PDSCHCodeMapping,
  iE-Extensions       ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}
DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
DSCHInformation-RL-SetupRspFDD ::= SEQUENCE {
  dsch-ID              DSCH-ID,
  priorityIndicator    PriorityIndicator-RL-SetupRspFDD,
  bindingID           BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions       ProtocolExtensionContainer { {DSCHInformation-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}
DSCHInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD
PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
  iE-Extensions             ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}
PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}
MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

```

```

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-SetupRsp }}

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-SetupRsp    CRITICALITY ignore    TYPE    Neighbouring-CellInformationItem-RL-SetupRsp    PRESENCE
    mandatory },
  ...
}

Neighbouring-CellInformationItem-RL-SetupRsp ::= SEQUENCE {
  rNC-ID                RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-SetupRsp    OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-SetupRsp    OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-FDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-SetupRsp

Per-FDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID                C-ID,
  uARFCNforNu        UARFCN,
  uARFCNforNd        UARFCN,
  frameOffset        FrameOffset    OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power    OPTIONAL,
  cellIndividualOffset CellIndividualOffset    OPTIONAL,
  txDiversityIndicator TxDiversityIndicator,
  sTTD-SupportIndicator STTD-SupportIndicator    OPTIONAL,
  closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator    OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator    OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID                C-ID,
  uARFCNforNt        UARFCN,
  frameOffset        FrameOffset    OPTIONAL,

```

```

cellParameterID          CellParameterID,
syncCase                  SyncCase,
timeSlot                  TimeSlot          OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot              SCH-TimeSlot      OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator      Block-STTD-Indicator,
cellIndividualOffset      CellIndividualOffset  OPTIONAL,
dPCHConstantValue        DPCHConstantValue  OPTIONAL,
pCCPCH-Power              PCCPCH-Power      OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs } } OPTIONAL,
...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

RadioLinkSetupResponseTDD ::= SEQUENCE {
  protocolIEs              ProtocolIE-Container   {{RadioLinkSetupResponseTDD-IEs}},
  protocolExtensions       ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}          OPTIONAL,
  ...
}

RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI              CRITICALITY ignore TYPE D-RNTI              PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } |
  { ID id-UL-SIRTarget         CRITICALITY ignore TYPE UL-SIR              PRESENCE mandatory } |
  { ID id-DL-SIRTarget         CRITICALITY ignore TYPE DL-SIRTarget        PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID                      RL-ID,
  sAI                         SAI,
  gA-Cell                     GA-Cell          OPTIONAL,
  gA-AccessPointPosition      GA-AccessPointPosition  OPTIONAL,
  ul-InterferencePerTimeslot  UL-InterferenceList-RL-SetupRspTDD,

```

```

maxUL-SIR                UL-SIR,
minUL-SIR                UL-SIR,
maximumAllowedULTxPower  MaximumAllowedULTxPower,
maximumDLTxPower        DL-Power,
minimumDLTxPower        DL-Power,
ul-CCTrCHInformation    UL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
dl-CCTrCHInformation    DL-CCTrCHInformationList-RL-SetupRspTDD    OPTIONAL,
dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD,
dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD  OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp  OPTIONAL,
-- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
iE-Extensions          ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
timeSlot                TimeSlot,
ul-InterferenceLevel    UL-InterferenceLevel,
iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD    PRESENCE mandatory },
...
}

UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
cCTrCH-ID              CCTrCH-ID,
ul-DPCH-Information    UL-DPCH-InformationList-RL-SetupRspTDD,
iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

}

UL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-SetupRspTDD} }

UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE UL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory},
  ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift         MidambleShift,
  timeSlot               TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}

DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD

DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
  cCTrCH-ID              CCTrCH-ID,
  dl-DPCH-Information    DL-DPCH-InformationList-RL-SetupRspTDD,
  iE-Extensions          ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE DL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory},

```

```

}
...
}
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE mandatory },
    ...
}
DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD
DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}
DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
    ...
}
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD

```

```

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspTDD,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths       MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{USCH-InformationList-RL-SetupRspTDD}}

USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD    CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
    ...
}

USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID                USCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    transportFormatManagement TransportFormatManagement,
    iE-Extensions          ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

RadioLinkSetupFailureFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkSetupFailureFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
  { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
  { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
  { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } |
  { ID id-UL-SIRTarget    CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
  { ID id-DL-SIRTarget    CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause      GeneralCauseList-RL-SetupFailureFDD,
  rLSpecificCause   RLSpecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE GeneralCauseItem-RL-SetupFailureFDD PRESENCE
  mandatory },
  ...
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  cause            Cause,
  iE-Extensions   ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



```

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-RLSpecificCauseItem-RL-SetupFailureFDD      CRITICALITY ignore      TYPE      RLSpecificCauseItem-RL-SetupFailureFDD
    PRESENCE mandatory },
  ...
}

RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-SetupFailureFDD      UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
  successful-RL-InformationRespList-RL-SetupFailureFDD      SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1 { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore      TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory },
  ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  cause      Cause,
  iE-Extensions      ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList0-1 { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore      TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory },
  ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  rL-Set-ID      RL-Set-ID,
}

```

```

    sAI,
    ul-InterferenceLevel          UL-InterferenceLevel,
    dl-CodeInformationList        DL-CodeInformationList-RL-SetupFailureFDD,
    diversityIndication           DiversityIndication-RL-SetupFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator         SSDT-SupportIndicator,
    maxUL-SIR                     UL-SIR,
    minUL-SIR                     UL-SIR,
    closedloopTimingAdjustmentmode ClosedloopTimingAdjustmentmode OPTIONAL,
    maximumAllowedULTxPower       MaximumAllowedULTxPower,
    maximumDLTxPower              DL-Power,
    minimumDLTxPower             DL-Power,
    dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-SetupFailureFDD PRESENCE mandatory },
    ...
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupFailureFDD

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupFailureFDD }}

DiversityIndicationIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupFailureFDD PRESENCE mandatory },
    ...
}

```

```

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
    combining                Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL    NonCombiningOrFirstRL-RL-SetupFailureFDD,
    ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupFailureFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupFailureFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}

NonCombiningOrFirstRLIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD    CRITICALITY ignore    TYPE NonCombiningOrFirstRLItem-RL-SetupFailureFDD    PRESENCE
    mandatory },
    ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-SetupFailureFDD    DCH-InformationResponseList-RL-SetupFailureFDD    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupFailureFDD

DCH-InformationResponseItem-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                BindingID,
    transportLayerAddress     TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}

DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD    CRITICALITY ignore    TYPE DSCH-InformationResponseListIE-RL-SetupFailureFDD    PRESENCE
    mandatory },
    ...
}

DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupFailureFDD

DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-
CellInformationItemIE-RL-SetupFailureFDD }}

Neighbouring-CellInformationItemIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-SetupFailureFDD    CRITICALITY ignore    TYPE    Neighbouring-CellInformationItem-RL-SetupFailureFDD
    PRESENCE    mandatory },
    ...
}

Neighbouring-CellInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList  Per-FDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
    per-TDD-Cell-InformationList  Per-TDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-FDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-
SetupFailureFDD

```

```

Per-FDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  c-ID                C-ID,
  uARFCNforNu        UARFCN,
  uARFCNforNd        UARFCN,
  frameOffset        FrameOffset          OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power    OPTIONAL,
  cellIndividualOffset CellIndividualOffset  OPTIONAL,
  txDiversityIndicator TxDiversityIndicator,
  sTTD-SupportIndicator STTD-SupportIndicator  OPTIONAL,
  closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator  OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator  OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

Per-TDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupFailureFDD

```

```

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  c-ID                C-ID,
  uARFCNforNt        UARFCN,
  frameOffset        FrameOffset          OPTIONAL,
  cellParameterID    CellParameterID,
  syncCase           SyncCase,
  timeSlot           TimeSlot             OPTIONAL
  -- This IE is present only if Sync Case = Case1 -- ,
  sCH-TimeSlot       SCH-TimeSlot         OPTIONAL
  -- This IE is present only if Sync Case = Case2 -- ,
  block-STTD-Indicator Block-STTD-Indicator,
  cellIndividualOffset CellIndividualOffset  OPTIONAL,
  dPCHConstantValue DPCHConstantValue    OPTIONAL,
  pCCPCH-Power       PCCPCH-Power,
  iE-Extensions      ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore    TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory
    } |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore    TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD    CRITICALITY ignore    TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE
    mandatory },
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition    GA-AccessPointPosition    OPTIONAL,
    ul-InterferenceLevel    UL-InterferenceLevel,
    secondary-CCPCH-Info    Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation      DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication      DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator    SSDT-SupportIndicator,
    minUL-SIR              UL-SIR,
    maxUL-SIR              UL-SIR,
    closedloopoptimingadjustmentmode    Closedloopoptimingadjustmentmode    OPTIONAL,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    maximumDLTxPower        DL-Power,
    minimumDLTxPower        DL-Power,
}

```

```

    neighbouring-CellInformationList   Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset                FDD-S-CCPCH-Offset,
    dl-ScramblingCode                 DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber   FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                           TFCS,
    secondaryCCPCH-SlotFormat          SecondaryCCPCH-SlotFormat,
    tFCI-Presence                      TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition               MultiplexingPosition,
    sTTD-Indicator                    STTD-Indicator,
    fACH-PCH-InformationList           FACH-PCH-InformationList-RL-AdditionRspFDD,
    schedulingInformation              SchedulingInformation-RL-AdditionRspFDD,
    iE-Extensions                     ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-AdditionRspFDD

FACH-PCH-InformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    transportFormatSet                TransportFormatSet,
    iE-Extensions                     ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-Rep                          IB-SG-REP,
    segmentInformationList              SegmentInformationList-RL-AdditionRspFDD,
    iE-Extensions                     ProtocolExtensionContainer { { SchedulingInformation-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

SegmentInformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-AdditionRspFDD

SegmentInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}

DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionRspFDD

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response    Transmission-Gap-Pattern-Sequence-Information-Response    OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionRspFDD }}

DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
    combining                Combining-RL-AdditionRspFDD,
    nonCombining            NonCombining-RL-AdditionRspFDD,
    ...
}

Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },

```



```

}
...
}
CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionRspFDD }}

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspFDD    DCH-InformationResponseList-RL-AdditionRspFDD,
    iE-Extensions                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionRsp }}

Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionRsp    CRITICALITY ignore    TYPE    Neighbouring-CellInformationItem-RL-AdditionRsp    PRESENCE
    mandatory },
    ...
}

```

```

}

Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
    per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-FDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionRsp

Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu         UARFCN,
    uARFCNforNd         UARFCN,
    frameOffset         FrameOffset OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power  PrimaryCPICH-Power OPTIONAL,
    cellIndividualOffset CellIndividualOffset OPTIONAL,
    txDiversityIndicator TxDiversityIndicator,
    sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
    closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionRsp

Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNt         UARFCN,
    frameOffset         FrameOffset OPTIONAL,
    cellParameterID     CellParameterID,
    syncCase            SyncCase,
    timeSlot            TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot        SCH-TimeSlot OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator Block-STTD-Indicator,

```

```

    cellIndividualOffset          CellIndividualOffset    OPTIONAL,
    dPCHConstantValue            DPCHConstantValue     OPTIONAL,
    pCCPCH-Power                 PCCPCH-Power,
    iE-Extensions                 ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkAdditionResponseTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
    ...
}

RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    sAI                        SAI,
    gA-Cell                    GA-Cell    OPTIONAL,
    gA-AccessPointPosition     GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-AdditionRspTDD,
    ul-CCTrCHInformation       UL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    dl-CCTrCHInformation       DL-CCTrCHInformationList-RL-AdditionRspTDD    OPTIONAL,
    diversityIndication        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR                  UL-SIR,
    maxUL-SIR                  UL-SIR,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    maximumDLTxPower          DL-Power,
    minimumDLTxPower         DL-Power,
    dSCH-InformationResponse    DSCH-InformationResponse-RL-AdditionRspTDD    OPTIONAL,

```

```

uSCH-InformationResponse      USCH-InformationResponse-RL-AdditionRspTDD      OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp      OPTIONAL,
iE-Extensions                ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    ul-InterferenceLevel    UL-InterferenceLevel,
    iE-Extensions          ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD      CRITICALITY ignore      TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD      PRESENCE mandatory
},
    ...
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD

UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID              CCTrCH-ID,
    ul-DPCH-Information    UL-DPCH-InformationList-RL-AdditionRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD          CRITICALITY ignore      TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD      PRESENCE mandatory },
    ...
}

```

```

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD PRESENCE mandatory
    },
    ...
}

DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD

DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-Information      DL-DPCH-InformationList-RL-AdditionRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory },
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,

```

```

timeSlot                TimeSlot,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod        RepetitionPeriod,
repetitionLength        RepetitionLength,
tFCI-Presence           TFCI-Presence,
iE-Extensions           ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}

DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE DiversityIndicationItem-RL-AdditionRspTDD  PRESENCE mandatory },
  ...
}

DiversityIndicationItem-RL-AdditionRspTDD ::= CHOICE {
  combining          Combining-RL-AdditionRspTDD,
  nonCombining       NonCombining-RL-AdditionRspTDD,
  ...
}

Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{CombiningIE-RL-AdditionRspTDD}}

CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE CombiningItem-RL-AdditionRspTDD  PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
  rL-ID              RL-ID,
  iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
  ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

NonCombining-RL-AdditionRspTDD ::= ProtocolIE-Container {{NonCombiningIE-RL-AdditionRspTDD}}

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningItem-RL-AdditionRspTDD  CRITICALITY ignore  TYPE NonCombiningItem-RL-AdditionRspTDD  PRESENCE mandatory },
  ...
}

NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-InformationResponse-RL-AdditionRspTDD      DCH-InformationResponseList-RL-AdditionRspTDD,

```

```

    iE-Extensions          ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-ID                  DCH-ID,
    bindingID               BindingID,
    transportLayerAddress   TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}

DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE DSCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator       PriorityIndicator-RL-AdditionRspTDD,
    diversityIndication     DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-AdditionRspTDD

PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
    iE-Extensions             ProtocolExtensionContainer { {PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID          BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions      ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
    ...
}
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE USCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD

USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions      ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

RadioLinkAdditionFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionFailureFDD-IEs}},

```



```

    protocolExtensions          ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD          CRITICALITY          ignore          TYPE CauseLevel-RL-AdditionFailureFDD
    PRESENCE          mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore          TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause          RLSpecificCauseList-RL-AdditionFailureFDD,
    ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore
    TYPE GeneralCauseItem-RL-AdditionFailureFDD          PRESENCE mandatory },
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    cause          Cause,
    iE-Extensions          ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY          ignore          TYPE RLSpecificCauseItem-RL-
    AdditionFailureFDD          PRESENCE          mandatory},
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD          UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD          SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD          OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-
IEs} }

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IES RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD          PRESENCE mandatory },
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  cause                Cause,
  iE-Extensions        ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IES RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
  PRESENCE mandatory },
  ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  rL-Set-ID            RL-Set-ID,
  sAI                  SAI,
  ul-InterferenceLevel UL-InterferenceLevel,
  dl-CodeInformation   DL-CodeInformationList-RL-AdditionFailureFDD,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator SSDT-SupportIndicator,
  minUL-SIR            UL-SIR,
  maxUL-SIR            UL-SIR,
  closedloopoptimingadjustmentmode Closedloopoptimingadjustmentmode OPTIONAL,
  maximumAllowedULTxPower MaximumAllowedULTxPower,
  maximumDLTxPower      DL-Power,
  minimumDLTxPower     DL-Power,
  neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionFailureFDD    PRESENCE
    mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD    PRESENCE
    mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining                Combining-RL-AdditionFailureFDD,
    nonCombining             NonCombining-RL-AdditionFailureFDD,
    ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionFailureFDD      DCH-InformationResponseList-RL-AdditionFailureFDD,
    iE-Extensions                                     ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD

DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE    Neighbouring-CellInformationItem-RL-AdditionFailureFDD    PRESENCE    mandatory },
    ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rNC-ID                RNC-ID,
    cN-PS-DomainIdentifier CN-PS-DomainIdentifier    OPTIONAL,
    cN-CS-DomainIdentifier CN-CS-DomainIdentifier    OPTIONAL,
    per-FDD-Cell-InformationList  Per-FDD-Cell-InformationList-RL-AdditionFailureFDD    OPTIONAL,

```

```

    per-TDD-Cell-InformationList      Per-TDD-Cell-InformationList-RL-AdditionFailureFDD  OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-FDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                               C-ID,
    uARFCNforNu                        UARFCN,
    uARFCNforNd                        UARFCN,
    frameOffset                        FrameOffset          OPTIONAL,
    primaryScramblingCode              PrimaryScramblingCode,
    primaryCPICH-Power                 PrimaryCPICH-Power  OPTIONAL,
    cellIndividualOffset               CellIndividualOffset OPTIONAL,
    txDiversityIndicator              TxDiversityIndicator,
    sTTD-SupportIndicator              STTD-SupportIndicator OPTIONAL,
    closedLoopModel-SupportIndicator   ClosedLoopModel-SupportIndicator OPTIONAL,
    closedLoopMode2-SupportIndicator   ClosedLoopMode2-SupportIndicator OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                               C-ID,
    uARFCNforNt                        UARFCN,
    frameOffset                        FrameOffset          OPTIONAL,
    cellParameterID                   CellParameterID,
    syncCase                           SyncCase,
    timeSlot                           TimeSlot            OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot                       SCH-TimeSlot          OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator               Block-STTD-Indicator,
    cellIndividualOffset               CellIndividualOffset OPTIONAL,
    dPCHConstantValue                 DPCHConstantValue  OPTIONAL,
    pCCPCH-Power                       PCCPCH-Power,
    iE-Extensions                    ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

<Editor's note: Parts of the ASN.1 module is skipped.>

-- *****
--
-- RADIO LINK RECONFIGURATION READY FDD
--
-- *****

RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationReadyFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseList-RL-ReconfReadyFDD    CRITICALITY ignore  TYPE RL-InformationResponseList-RL-ReconfReadyFDD    PRESENCE optional
  } |
  { ID id-CriticalityDiagnostics          CRITICALITY ignore  TYPE CriticalityDiagnostics          PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-ReconfReadyFDD ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfReadyFDD-IEs} }

RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-ReconfReadyFDD    CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-ReconfReadyFDD    PRESENCE mandatory
  },
  ...
}

RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  max-UL-SIR           UL-SIR          OPTIONAL,
  min-UL-SIR           UL-SIR          OPTIONAL,
  maximumDLTxPower    DL-Power        OPTIONAL,
  minimumDLTxPower    DL-Power        OPTIONAL,
  secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfReadyFDD  OPTIONAL,
  dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD  OPTIONAL,
}

```

```

dCHsInformationResponseList      DCH-InformationResponseList-RL-ReconfReadyFDD  OPTIONAL,
dSCHToBeAddedOrModified         DSCHToBeAddedOrModified-RL-ReconfReadyFDD  OPTIONAL,
iE-Extensions                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Secondary-CCPCH-Info-RL-ReconfReadyFDD ::= SEQUENCE {
fDD-S-CCPCH-Offset              FDD-S-CCPCH-Offset,
dl-ScramblingCode              DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
dl-TFCS                        TFCS,
secondaryCCPCH-SlotFormat      SecondaryCCPCH-SlotFormat,
tFCI-Presence                  TFCI-Presence  OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
multiplexingPosition           MultiplexingPosition,
sTTD-Indicator                 STTD-Indicator,
fACH-PCH-InformationList       FACH-PCH-InformationList-RL-ReconfReadyFDD,
schedulingInformation          SchedulingInformation-RL-ReconfReadyFDD,
iE-Extensions                  ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-ReconfReadyFDD

FACH-PCH-InformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
transportFormatSet             TransportFormatSet,
iE-Extensions                  ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
...
}

FACH-PCH-InformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

SchedulingInformation-RL-ReconfReadyFDD ::= SEQUENCE {
iB-SG-Rep                     IB-SG-REP,
segmentInformationList         SegmentInformationList-RL-ReconfReadyFDD,
iE-Extensions                  ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
...
}

SchedulingInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

}

SegmentInformationList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfReadyFDD

SegmentInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}

DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-ReconfReadyFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfReadyFDD    PRESENCE mandatory },
    ...
}

DL-CodeInformationListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfReadyFDD

DL-CodeInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response    Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} }

DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-ReconfReadyFDD    CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReadyFDD    PRESENCE
    mandatory },
    ...
}

DCH-InformationResponseListIE-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyFDD

DCH-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dCH-ID                    DCH-ID,
    bindingID                BindingID,
    transportLayerAddress    TransportLayerAddress,
    iE-Extensions            ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}

```



```

}
DCH-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCHToBeAddedOrModified-RL-ReconfReadyFDD ::= ProtocolIE-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD} }
DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD PRESENCE mandatory },
    ...
}
DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD ::= SEQUENCE {
    dschInformation      DSCHInformation-RL-ReconfReadyFDD,
    pdSCHCodeMapping     PDSCHCodeMapping,
    iE-Extensions        ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
DSCHToBeAddedOrModifiedIE-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCHInformation-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-ReconfReadyFDD
DSCHInformationItem-RL-ReconfReadyFDD ::= SEQUENCE {
    dsch-ID              DSCH-ID,
    priorityIndicator    PriorityIndicator-RL-ReconfReadyFDD,
    bindingID            BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DSCHInformation-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
DSCHInformation-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
PriorityIndicator-RL-ReconfReadyFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyFDD
PriorityIndicatorItem-RL-ReconfReadyFDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD,
    iE-Extensions              ProtocolExtensionContainer { {PriorityIndicatorItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    ...
}
PriorityIndicatorItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

MAC-c-sh-SDU-LengthList-RL-ReconfReadyFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK RECONFIGURATION READY TDD
--
-- *****

RadioLinkReconfigurationReadyTDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{RadioLinkReconfigurationReadyTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationReadyTDD-Extensions}}      OPTIONAL,
  ...
}

RadioLinkReconfigurationReadyTDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponse-RL-ReconfReadyTDD
    CRITICALITY ignore TYPE RL-InformationResponse-RL-ReconfReadyTDD PRESENCE optional } |
  { ID id-CriticalityDiagnostics
    CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RL-InformationResponse-RL-ReconfReadyTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  max-UL-SIR     UL-SIR          OPTIONAL,
  min-UL-SIR     UL-SIR          OPTIONAL,
  maximumDLTxPower    DL-Power          OPTIONAL,
  minimumDLTxPower    DL-Power          OPTIONAL,
  ul-CCTrCH-Information
    UL-CCTrCH-InformationList-RL-ReconfReadyTDD      OPTIONAL,
  dl-CCTrCH-Information
    DL-CCTrCH-InformationList-RL-ReconfReadyTDD      OPTIONAL,
  dCHsInformationResponseList
    DCH-InformationResponseList-RL-ReconfReadyTDD    OPTIONAL,
  dSCHsToBeAddedOrModified
    DSCHToBeAddedOrModified-RL-ReconfReadyTDD        OPTIONAL,
  uSCHsToBeAddedOrModified
    USCHToBeAddedOrModified-RL-ReconfReadyTDD        OPTIONAL,
  iE-Extensions
    ProtocolExtensionContainer { {RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

RL-InformationResponse-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

UL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD
    CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-ReconfReadyTDD PRESENCE mandatory
  },
  ...
}

```

```

}

UL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-ReconfReadyTDD

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
  cCTrCH-ID                CCTrCH-ID,
  ul-DPCH-AddInformation    UL-DPCH-InformationAddList-RL-ReconfReadyTDD          OPTIONAL,
  ul-DPCH-ModifyInformation UL-DPCH-InformationModifyList-RL-ReconfReadyTDD      OPTIONAL,
  ul-DPCH-DeleteInformation UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD          OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { {UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD  CRITICALITY ignore TYPE UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD  PRESENCE
  mandatory },
  ...
}

UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfReadyTDD

UL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift          MidambleShift,
  timeSlot               TimeSlot,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  CRITICALITY ignore TYPE UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD  PRESENCE
  mandatory },
  ...
}

```

```

}

UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

UL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    burstType              BurstType OPTIONAL,
    midambleShift          MidambleShift OPTIONAL,
    timeSlot               TimeSlot OPTIONAL,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod       RepetitionPeriod OPTIONAL,
    repetitionLength       RepetitionLength OPTIONAL,
    tFCI-Presence          TFCI-Presence OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

UL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD PRESENCE
    mandatory },
    ...
}

UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

UL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD}}

DL-CCTrCHInformationListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-ReconfReadyTDD PRESENCE mandatory
    },
    ...
}

```

```

DL-CCTrCHInformationListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-ReconfReadyTDD

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-AddInformation    DL-DPCH-InformationAddList-RL-ReconfReadyTDD        OPTIONAL,
    dl-DPCH-ModifyInformation DL-DPCH-InformationModifyList-RL-ReconfReadyTDD     OPTIONAL,
    dl-DPCH-DeleteInformation DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD     OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationAddListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD    CRITICALITY ignore TYPE DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD    PRESENCE
    mandatory },
    ...
}

DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfReadyTDD

DL-DPCH-InformationAddItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationAddList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationModifyListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD    CRITICALITY ignore TYPE DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD    PRESENCE
    mandatory },
    ...
}

```

```

DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD

DL-DPCH-InformationModifyItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  burstType              BurstType OPTIONAL,
  midambleShift          MidambleShift OPTIONAL,
  timeSlot               TimeSlot OPTIONAL,
  tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionPeriod       RepetitionPeriod OPTIONAL,
  repetitionLength       RepetitionLength OPTIONAL,
  tFCI-Presence          TFCI-Presence OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationModifyList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD ::= ProtocolIE-Container {{DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD}}

DL-DPCH-InformationDeleteListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD PRESENCE
  mandatory },
  ...
}

DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD

DL-DPCH-InformationDeleteItem-RL-ReconfReadyTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationDeleteList-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyTDD} }

DCH-InformationResponseListIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseListIE-RL-ReconfReadyTDD CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-ReconfReadyTDD PRESENCE
  mandatory },
  ...
}

DCH-InformationResponseListIE-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfReadyTDD

DCH-InformationResponseItem-RL-ReconfReadyTDD ::= SEQUENCE {

```

```

    dCH-ID                DCH-ID,
    bindingID              BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Container { {DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

DSCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD CRITICALITY ignore TYPE DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD PRESENCE mandatory
    },
    ...
}

DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfDSCHs)) OF DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
    dsch-ID                Dsch-ID,
    priorityIndicator       PriorityIndicator-RL-ReconfReadyTDD,
    bindingID              BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-ReconfReadyTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-ReconfReadyTDD

PriorityIndicatorItem-RL-ReconfReadyTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths       MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD,
    iE-Extensions              ProtocolExtensionContainer { {PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-ReconfReadyTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCHToBeAddedOrModified-RL-ReconfReadyTDD ::= ProtocolIE-Container { {USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD} }

```

```

USCHToBeAddedOrModifiedIEs-RL-ReconfReadyTDD RNSAP-PROTOCOL-IES ::= {
  { ID id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD  CRITICALITY ignore  TYPE USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD  PRESENCE mandatory
  },
  ...
}

USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD ::= SEQUENCE (SIZE (0..maxNoOfUSCHs)) OF USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD ::= SEQUENCE {
  uSCH-ID                USCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions          ProtocolExtensionContainer { {USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs} } OPTIONAL,
  ...
}

USCHToBeAddedOrModifiedItem-RL-ReconfReadyTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkReconfigurationReadyTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- *****
--
-- RADIO LINK RECONFIGURATION RESPONSE
--
-- *****

RadioLinkReconfigurationResponse ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container      {{RadioLinkReconfigurationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}      OPTIONAL,
  ...
}

RadioLinkReconfigurationResponse-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseList-RL-ReconfRsp  CRITICALITY ignore  TYPE RL-InformationResponseList-RL-ReconfRsp  PRESENCE optional } |
  { ID id-CriticalityDiagnostics                  CRITICALITY ignore  TYPE CriticalityDiagnostics      PRESENCE optional },
  ...
}

RL-InformationResponseList-RL-ReconfRsp ::= RL-IE-ContainerList0 { {RL-InformationResponse-RL-ReconfRsp-IEs} }

RL-InformationResponse-RL-ReconfRsp-IEs RNSAP-PROTOCOL-IES ::= {

```



```

    { ID id-RL-InformationResponseItem-RL-ReconfRsp      CRITICALITY ignore  TYPE RL-InformationResponseItem-RL-ReconfRsp  PRESENCE mandatory  },
    ...
}

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
    rL-ID                RL-ID,
    max-UL-SIR           UL-SIR          OPTIONAL,
    min-UL-SIR           UL-SIR          OPTIONAL,
    maximumDLTxPower     DL-Power        OPTIONAL,
    minimumDLTxPower     DL-Power        OPTIONAL,
    secondary-CCPCH-Info Secondary-CCPCH-Info-RL-ReconfRsp  OPTIONAL,
    dCHsInformationResponseList DCH-InformationResponseList-RL-ReconfRsp  OPTIONAL,
    dL-CodeInformationList-RL-ReconfRsp DL-CodeInformationList-RL-ReconfRsp  OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-ReconfRsp ::= SEQUENCE {
    fDD-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
    dl-ScramblingCode       DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                 TFCS,
    secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    tFCI-Presence           TFCI-Presence  OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition    MultiplexingPosition,
    sTTD-Indicator          STTD-Indicator,
    fACH-PCH-InformationList FACH-PCH-InformationList-RL-ReconfRsp,
    schedulingInformation   SchedulingInformation-RL-ReconfRsp,
    iE-Extensions           ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-ReconfRsp

FACH-PCH-InformationItem-RL-ReconfRsp ::= SEQUENCE {
    transportFormatSet      TransportFormatSet,
    iE-Extensions           ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

SchedulingInformation-RL-ReconfRsp ::= SEQUENCE {
    iB-SG-Rep          IB-SG-REP,
    segmentInformationList SegmentInformationList-RL-ReconfRsp,
    iE-Extensions     ProtocolExtensionContainer { { SchedulingInformation-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-ReconfRsp ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-ReconfRsp

SegmentInformationItem-RL-ReconfRsp ::= SEQUENCE {
    iB-SG-POS          IB-SG-POS,
    iE-Extensions     ProtocolExtensionContainer { { SegmentInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-ReconfRsp ::= ProtocolIE-Container { {DCH-InformationResponseListIEs-RL-ReconfRsp} }

DCH-InformationResponseListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponseListIE-RL-ReconfRsp      CRITICALITY ignore  TYPE DCH-InformationResponseListIE-RL-ReconfRsp  PRESENCE mandatory
    },
    ...
}

DCH-InformationResponseListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-ReconfRsp

DCH-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
    dCH-ID            DCH-ID,
    bindingID         BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions     ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfRsp ::= ProtocolIE-Container { { DL-CodeInformationListIEs-RL-ReconfRsp } }

DL-CodeInformationListIEs-RL-ReconfRsp RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-DL-CodeInformationListIE-RL-ReconfRsp    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-ReconfRsp    PRESENCE optional },
    ...
}

```

```
DL-CodeInformationListIE-RL-ReconfRsp ::= SEQUENCE (SIZE (0..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-ReconfRsp
```

```
DL-CodeInformationItem-RL-ReconfRsp ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response  Transmission-Gap-Pattern-Sequence-Information-Response,
    iE-Extensions                    ProtocolExtensionContainer { { DL-CodeInformationItem-RL-ReconfRsp-ExtIEs } } OPTIONAL,
    ...
}

```

```
DL-CodeInformationItem-RL-ReconfRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
RadioLinkReconfigurationResponse-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

<Editor's note: The rest of the ASN.1 module is skipped.>

8.3 DCH procedures

8.3.1 Radio Link Setup

8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links.

The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

8.3.1.2 Successful Operation

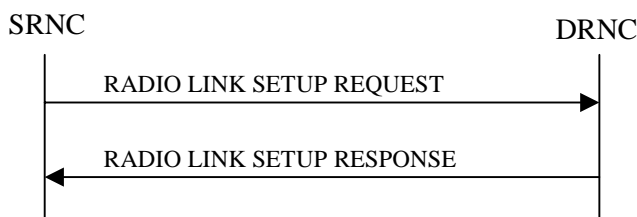


Figure 1: Radio Link Setup procedure: Successful Operation

When the SRNC makes an algorithmic decision to add the first cell or set of cells from a DRNS to the active set of a specific RRC connection, the RADIO LINK SETUP REQUEST message is sent to the corresponding DRNC to request setup of the radio link(s).

The message includes the S-RNTI associated to the UE, and, if the UE context is already present in the DRNC, the corresponding D-RNTI.

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator* IE is set to "first RLS", the DRNS shall use a TPC pattern of $n \cdot "01" + "1"$ in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with $CFN \bmod 4 = 0$. For all other RLs, the DRNS shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.]

[FDD - The *Diversity Control Field* IE indicates for each RL except for the first RL whether the DRNS shall combine the RL with any of the other RLs or not on the Iur. If the *Diversity Control Field* IE is set to "May" (be combined with another RL), then the DRNS shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the DRNS shall combine the RL with one of the other RL. When an RL is to be combined the DRNS shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request before providing a response to the SRNC.

[FDD - If the *Initial DL TX Power* IE and *Uplink SIR Target* IE are present in the message, the DRNS shall use the indicated DL TX Power and Uplink SIR Target as initial value.]

[FDD - If the *Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL TX Power.]

[TDD - If the *Primary CCPCH RSCP* IE and/or the *Time Slot ISCP* IE are present, the DRNC should use the indicated values when deciding the Initial DL TX Power.]

[FDD - The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL until UL synchronisation is achieved for the concerning RLS or a DL POWER CONTROL REQUEST message is received. No innerloop power control or power balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10] subclause 5.2.1.2) with $DPC_MODE=0$ and the power control procedure (see 8.3.7).]

[TDD – The DRNS shall start the DL transmission using the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code and on each Time Slot of a RL until UL synchronisation is achieved for the concerning RL. No innerloop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22] subclause 4.2.3.3).]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCH Info* IE as a set of co-ordinated DCHs.

For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected ", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected ", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected " shall be used for the QE in the UL data frames, ref. [4]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected " the Physical channel BER shall be used for the QE, ref. [4].

The *Allocation/Retention Priority* IE defines the priority level that should be used by the DRNS to prioritise the allocation and the retention of the resources used by the DCH. The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise the discard/delay of the data frames of the DCH and DSCH (if any).

The DRNS shall use the included *UL DCH FP Mode* IE for a DCH or a set of co-ordinated DCHs as the new DCH FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity* IE, the DRNS may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the DRNS shall store the information about the Transmission Gap Pattern Sequences to be used when those are activated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall immediately activate the indicated Transmission Gap Pattern Sequences: for each sequence the *TGCFN* refers to latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the DRNS shall behave as specified in ref. [26].]

[TDD – The DRNS shall use the *RB Identity* IE list inside the USCH information group to map each *RB Identity* IE to the corresponding USCH.]

At the reception of the RADIO LINK SETUP REQUEST message, DRNS allocates requested type of channelisation codes and other physical channel resources for each RL and assigns a binding identifier and a transport layer address for each DCH or set of co-ordinated DCHs and for each DSCH [TDD – and USCH]. This information shall be sent to the SRNC in the message RADIO LINK SETUP RESPONSE when all the RLs have been successfully setup.

[TDD –. If the DSCH Information is included in the RADIO LINK SETUP REQUEST message, the DRNC shall send a valid set of *Scheduling Priority* IE and *MAC-c/sh SDU lengths* IE parameters to the SRNC in the message RADIO LINK SETUP RESPONSE message].

[FDD - If the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not present in the RADIO LINK SETUP REQUEST message, then DRNC shall include the ~~suggested-determined~~ initial Uplink and Downlink SIR Targets in the RADIO LINK SETUP RESPONSE message.]

[FDD – For each RL not having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the UE context.]

[FDD – For all RLs having a common generation of the TPC commands in the DL with another RL, the DRNS shall assign the *RL Set ID* IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the UE context.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the Diversity Indication that the RL is combined with another RL. In this case the Reference *RL ID* IE shall be included to indicate with which RL the combination is performed. The Reference *RL ID* IE shall be included for all but one of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

[FDD - In the case of not combining an RL with another RL, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that no combining is performed. In this case the DRNC shall include both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH and DSCH of the RL in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall always include in the RADIO LINK SETUP RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DCH, DSCH [TDD – and USCH] of the RL.]

In case of a set of coordinated DCHs requiring a new transport bearer on Iur the *Binding Identifier* IE and the *Transport Layer Address* IE shall be included only for one of the DCH in the set of co-ordinated DCHs.

[FDD - Irrespective of SSdT activation, the DRNS shall include in the RADIO LINK SETUP RESPONSE message an indication concerning the capability to support SSdT on this RL. Only if the RADIO LINK SETUP REQUEST message requested SSdT activation and the RADIO LINK SETUP RESPONSE message indicates that the SSdT capability is supported for this RL, SSdT is activated in the DRNS.]

[FDD – If the cell in which the RL is being set up is capable to provide Close loop Tx diversity, the DRNC shall include the *Closed Loop Timing Adjustment Mode* IE in the RADIO LINK SETUP RESPONSE message indicating the configured Closed loop timing adjustment mode of the cell.]

The DRNS shall also provide the SRNC with the UTRAN Cell Identifier (UC-Id), the Frequency Number, the [FDD-Primary Scrambling Code], the [TDD-Cell Parameter ID, the Sync Case, the SCH Time Slot information, the Block STTD Indicator] of the neighbouring cells to the cell(s) where the radio link(s) are added. In addition, if the information is available, the DRNC shall also provide the [FDD-CPICH Power level]/[TDD-PCCPCH Power level, DPCH Constant Value] and Frame Offset of the neighbouring cell.

If a neighbouring cell is controlled by another RNC, the DRNC shall report also the node identifications (i.e. RNC and CN domain nodes) of the RNC controlling the neighbouring cell. [FDD – If the information is available, the DRNC shall include the *Tx Diversity Indicator* IE and Tx diversity capability (i.e. *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE, and *Closed Loop Mode2 Support Indicator* IE) in *Per FDD Cell Information* IE].

If there was no UE context for this UE in the DRNS before the RADIO LINK SETUP REQUEST message was received the DRNC shall include the node identifications of the CN Domain nodes that the RNC is connected to (using LAC and RAC of the current cell), and the *D-RNTI* IE in the RADIO LINK SETUP RESPONSE message.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK SETUP REQUEST message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE to be received on FACH, for each added Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK SETUP RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The DRNS shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [3].

[FDD – When *Diversity Mode* IE is "STTD", "Closed loop mode1", or "Closed loop mode2", the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE].

[FDD- If the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Information Response* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level	M		9.2.1.68		–	
> Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>> FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>> Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>> Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
> DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxno ofneighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref.	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[6]		
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>Per TDD Cell Information		<i>0..<maxno ofTDDneighbours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	Ø		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>>UL Interference Level	M		9.2.1.68		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>UL CCTrCH Information		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxno ofCCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<Maxno ofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DCH Information Response		1..<maxno ofDCHs>		Only one DCH per set of	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				co-ordinated DCHs shall be included.		
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		0 .. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		0 .. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	0..<maxno ofneighbouringRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneighbours>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Tx Diversity	M		9.2.2.50			

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Indicator						
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxno ofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>Successful RL Information Response		0..<maxno ofRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level	M		9.2.1.68		–	
>>>DL Code Information		1..<maxno ofDL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>Diversity Indication	M		9.2.2.7		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>>>>Non Combining First RL					YES	ignore
>>>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				–	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>DSCH Information Response		0..<maxno ofDSCHs>			GLOBAL	ignore
>>>>DSCH ID	M				–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>> Neighbouring Cell Information	O	<i>0..<maxno of neighbouring RNCs></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		–	
>>>> Per FDD Cell Information		<i>0..<maxno of FDD neighbouring cells></i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>>>> Per TDD Cell Information		<i>0..<maxno of TDD neighbouring cells></i>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell

9.1.5.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
CHOICE <i>cause level</i>						
> <i>General</i>					Yes	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					Yes	ignore
>> Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.49		-	
>>> <i>Cause</i>	M		9.2.1.5		-	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

9.2.1.22 Downlink SIR Target

Void.

~~It is the Target Downlink SIR that shall be used as initial value by the UE.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Downlink SIR Target			Uplink SIR	

9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    Closedlooptimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-Power,
    DL-ScramblingCode,
    .....

```

FROM RNSAP-Containers

maxNoOfDSCHs,
maxNoOfRB,
maxNoOfUSCHs,
maxNrOfCCTrCHs,
maxNrOfDCHs,
maxNrOfDL-Codes,
maxNrOfDPCHs,
maxNrOfMACcshSDU-Length,
maxNrOfRLs,
maxNrOfRLSets,
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfSCCPCHs,
maxNrOfULTs,
maxNrOfDLTs,
maxRNCinURA-1,
maxNrOfNeighbouringRNCs,
maxNrOfFDDNeighboursPerRNC,
maxNrOfTDDNeighboursPerRNC,
maxFACHCountPlus1,
maxIBSEG,

id-Active-Pattern-Sequence-Information,
id-AdjustmentRatio,
id-All-RLItem-DM-Rqst,
id-All-RLItem-Set-DM-Rqst,
id-AllowedQueuingTime,
id-BindingID,
id-C-ID,
id-C-RNTI,
id-CFN,
id-CN-CS-DomainIdentifier,
id-CN-PS-DomainIdentifier,
id-Cause,
id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD,
id-CellItem-PagingRqst,
id-CombiningItem-RL-AdditionFailureFDD,
id-CombiningItem-RL-AdditionRspFDD,
id-CombiningItem-RL-AdditionRspTDD,
id-CombiningItem-RL-SetupFailureFDD,
id-CombiningItem-RL-SetupRspFDD,
id-CriticalityDiagnostics,
id-D-RNTI,
id-D-RNTI-ReleaseIndication,
id-DCH-AddList-RL-ReconfPrepFDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-AddList-RL-ReconfRqstFDD,
id-DCH-AddList-RL-ReconfRqstTDD,

id-DCH-DeleteList-RL-ReconfPrepFDD,
 id-DCH-DeleteList-RL-ReconfPrepTDD,
 id-DCH-DeleteList-RL-ReconfRqstFDD,
 id-DCH-DeleteList-RL-ReconfRqstTDD,
 id-DCH-Information-RL-SetupRqstFDD,
 id-DCH-InformationList-RL-SetupRqstTDD,
 id-DCH-InformationResponseListIE-RL-ReconfReadyFDD,
 id-DCH-InformationResponseListIE-RL-ReconfReadyTDD,
 id-DCH-InformationResponseListIE-RL-ReconfRsp,
 id-DCH-ModifyList-RL-ReconfPrepFDD,
 id-DCH-ModifyList-RL-ReconfPrepTDD,
 id-DCH-ModifyList-RL-ReconfRqstFDD,
 id-DCH-ModifyList-RL-ReconfRqstTDD,
 id-DCH-InformationResponseListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD,
 id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,
 id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD,
 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD,
 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD,
 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
 id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
 id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,
 id-DL-CodeInformationListIE-PhyChReconfRqstFDD,
 id-DL-CodeInformationListIE-RL-AdditionFailureFDD,
 id-DL-CodeInformationListIE-RL-AdditionRspFDD,
 id-DL-CodeInformationListIE-RL-ReconfReadyFDD,
 id-DL-CodeInformationListIE-RL-ReconfRsp,
 id-DL-CodeInformationListIE-RL-SetupFailureFDD,
 id-DL-DPCH-Information-RL-ReconfPrepFDD,
 id-DL-DPCH-Information-RL-SetupRqstFDD,
 id-DL-DPCH-Information-RL-ReconfRqstFDD,
 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD,
 id-DL-DPCH-InformationItem-RL-AdditionRspTDD,
 id-DL-DPCH-InformationItem-RL-SetupRspTDD,
 id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,
 id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD,
 id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD,
 id-DL-SIRTarget,
 id-DLReferencePower,
 id-DLReferencePowerList-DL-PC-Rqst,
 id-DL-ReferencePowerInformation-DL-PC-Rqst,


```

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional    } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget    CRITICALITY ignore TYPE UL-SIR          PRESENCE optional    } |
    { ID id-DL-SIRTarget    CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional    } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD
        CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

.....

```

```
-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****
```

```
RadioLinkSetupResponseTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL,
    ...
}
```

```
RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE mandatory } |
    { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}
```

```
.....
```

```
-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****
```

```
RadioLinkSetupFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupFailureFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget    CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
    { ID id-DL-SIRTarget    CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

.....
```

```
-- D
DCH-ID ::= INTEGER (0..255)
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    round-trip-time,
    rx-timing-deviation,
    ...
}
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value SIR-Value,
    sIR-ErrorValue SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
    rSCP RSCP-Value, -- TDD only
    roundTripTime Round-Trip-Time-Value, -- FDD only
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only
    ...
}
DeltaSIR ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).
DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not
}
DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closedLoopMode1,
    closedLoopMode2
}
DL-DPCH-SlotFormat ::= INTEGER (0..16)
DL-SIRTarget ::= UL-SIR
DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
D-RNTI ::= INTEGER (0..1048575)
D-RNTI-ReleaseIndication ::= ENUMERATED {
```



```
    release-D-RNTI,  
    not-release-D-RNTI  
}  
  
DL-ScramblingCode ::= INTEGER (0..15)  
  
DL-FrameType ::= ENUMERATED {  
    typeA,  
    typeB,  
    ...  
}  
  
Downlink-Compressed-Mode-Method ::= ENUMERATED {  
    puncturing,  
    sFdiv2,  
    higher-layer-scheduling  
}  
  
DPCH-ID ::= INTEGER (0..239)  
  
DPCHConstantValue ::= INTEGER (-10..10)  
-- Unit dB, Step 1dB  
  
DRACControl ::= ENUMERATED {  
    requested,  
    not-requested  
}  
  
DRXCycleLengthCoefficient ::= INTEGER (2..12)  
  
D-FieldLength ::= ENUMERATED {  
    v1,  
    v2  
}  
  
DSCH-ID ::= INTEGER (0..255)
```

```

-- *****
--
-- IEs
--
-- *****

id-AllowedQueuingTime          INTEGER ::= 4
id-BindingID                   INTEGER ::= 5
id-C-ID                        INTEGER ::= 6
id-C-RNTI                      INTEGER ::= 7
id-CFN                         INTEGER ::= 8
id-CN-CS-DomainIdentifier      INTEGER ::= 9
id-CN-PS-DomainIdentifier      INTEGER ::= 10
id-Cause                       INTEGER ::= 11
id-CellItem-PagingRqst        INTEGER ::= 12
id-CombiningItem-RL-AdditionFailureFDD  INTEGER ::= 15
id-CombiningItem-RL-AdditionRspFDD      INTEGER ::= 16
id-CombiningItem-RL-AdditionRspTDD      INTEGER ::= 17
id-CombiningItem-RL-SetupFailureFDD     INTEGER ::= 18
id-CombiningItem-RL-SetupRspFDD        INTEGER ::= 19
id-CriticalityDiagnostics          INTEGER ::= 20
id-D-RNTI                        INTEGER ::= 21
id-D-RNTI-ReleaseIndication        INTEGER ::= 22
id-DCH-AddList-RL-ReconfPrepFDD        INTEGER ::= 26
id-DCH-AddList-RL-ReconfPrepTDD        INTEGER ::= 27
id-DCH-AddList-RL-ReconfRqstFDD        INTEGER ::= 28
id-DCH-AddList-RL-ReconfRqstTDD        INTEGER ::= 29
id-DCH-DeleteList-RL-ReconfPrepFDD     INTEGER ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD     INTEGER ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD     INTEGER ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD     INTEGER ::= 33
id-DCH-Information-RL-SetupRqstFDD     INTEGER ::= 34
id-DCH-InformationList-RL-SetupRqstTDD  INTEGER ::= 35
id-DCH-ModifyList-RL-ReconfPrepFDD     INTEGER ::= 39
id-DCH-ModifyList-RL-ReconfPrepTDD     INTEGER ::= 40
id-DCH-ModifyList-RL-ReconfRqstFDD     INTEGER ::= 41
id-DCH-ModifyList-RL-ReconfRqstTDD     INTEGER ::= 42
id-DCH-InformationResponseListIE-RL-SetupRspTDD  INTEGER ::= 43
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD  INTEGER ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD  INTEGER ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  INTEGER ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD      INTEGER ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD  INTEGER ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD  INTEGER ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD     INTEGER ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  INTEGER ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  INTEGER ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD     INTEGER ::= 53
id-DL-CodeInformationListIE-PhyChReconfRqstFDD    INTEGER ::= 54
id-DL-CodeInformationListIE-RL-AdditionFailureFDD  INTEGER ::= 55
id-DL-CodeInformationListIE-RL-AdditionRspFDD     INTEGER ::= 56
id-DL-CodeInformationListIE-RL-ReconfReadyFDD     INTEGER ::= 57
id-DL-CodeInformationListIE-RL-SetupFailureFDD    INTEGER ::= 58

```

id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 59
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 60
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRqstTDD	INTEGER ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	INTEGER ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	INTEGER ::= 64
id-DL-SIRTarget	INTEGER ::= 66
id-DLReferencePower	INTEGER ::= 67
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 68
.....	

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 154r1

Current Version: **3.2.0.**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

4th July 2000

Subject:

Power Reference Point

Work item:

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:

Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

The reference point of power measurements is defined in 25.215 (Physical Layer - Measurements (FDD)) to be the antenna connector.

This CR introduces reference point definition to following power setting IEs in RNSAP: DL Power and Primary CPICH Power.

Clauses affected:

9.2.2.10., 9.2.1.44.

Other specs affected:

Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a C

9.2.1.44 Primary CPICH Power

Primary CPICH power is the power that is used for transmitting the P-CPICH in a cell. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH Power			ENUMERATED (-10..50)	Unit dBm Granularity 0.1 dB.

8.3.1.3 Unsuccessful Operation

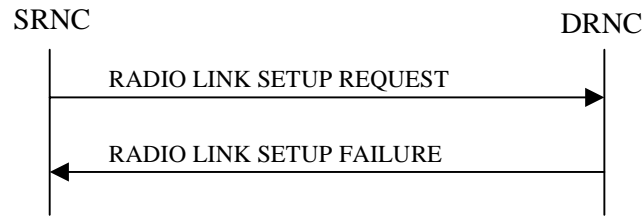


Figure 1: Radio Link Setup procedure: Unsuccessful Operation

In unsuccessful case (i.e. one or more RLs can not be setup) the RADIO LINK SETUP FAILURE message shall be sent to the SRNC, indicating the reason for failure. If some radio links were established successfully, the DRNC shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected " the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

[FDD – If the DRNS cannot provide the requested CM pattern sequences, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the value of the *Diversity Control Field* IE of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK SETUP FAILURE message].

[FDD – When the *Diversity Mode* IE equals “Closed loop mode1” or “Closed loop mode2” and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value “No Closed Loop Timing Adjustment Mode configured”.]

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK SETUP FAILURE message with the cause value "Number of DL Codes Not Supported".]

Typical cause values are:

Radio Network Layer Causes:

- [FDD - UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- [FDD - Combining Resources not available];
- Requested Configuration not Supported;
- Cell not Available;
- [FDD - No Closed Loop Timing Adjustment Mode configured];
- Power Level not Supported;
- Invalid CM Settings;
- Number of DL Codes Not Supported.

Transport Layer Causes:

- Transport Link Failure

Protocol Causes:

- Transaction not Allowed

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- Not enough User Plane Processing Resources.

8.3.2.3 Unsuccessful Operation

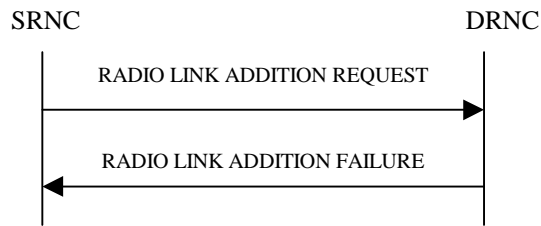


Figure 2: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall send a RADIO LINK ADDITION FAILURE as response.

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE and the DRNS cannot provide the requested CM measurements, or if the *Transmission Gap Pattern Sequence Status* IE group repetitions in the *Active Pattern Sequence Information* IE do not address exactly all ongoing compressed mode patterns the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST is used to terminate the on going compressed mode measurement in the new RLs (as specified above), but at least one new RL is setup in one cell that has the same UARCFN of at least one cell with an already existing RL, the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

If the value of the *Diversity Control Field* IE of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode* IE equals “Closed loop mode1” or “Closed loop mode2” and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value “No Closed Loop Timing Adjustment Mode configured”.]

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK ADDITION FAILURE message with the cause value "Number of DL Codes Not Supported".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Combining Resources not available ;
- Cell not Available;
- [FDD - No Closed Loop Timing Adjustment Mode configured];
- Power Level not Supported;
- Invalid CM Settings;
- Number of DL Codes Not Supported.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- Not enough User Plane Processing Resources.

8.3.4.3 Unsuccessful Operation

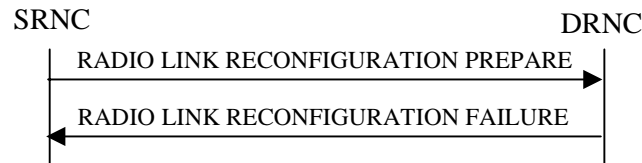


Figure 3: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the DRNS cannot reserve the necessary resources for all the new DCHs of a set of co-ordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

- If the requested Synchronised Radio Link Reconfiguration procedure fails for one or more RLs the DRNC shall send the RADIO LINK RECONFIGURATION FAILURE message to the SRNC, indicating the reason for failure.

If more than one DCH of a set of co-ordinated DCHs has the *QE-Selector* IE set to "selected " the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

[FDD – If the DRNS cannot provide the requested CM pattern sequences, the DRNC shall regard the Synchronised Radio Link Reconfiguration procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

In which cases to include only the *Cause* IE on message level and in which cases the *Cause* IE also shall be included for a specific RL is FFS.

[FDD - If the DRNS cannot support the requested number of DL Codes on a permanent basis, the DRNS shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Number of DL Codes Not Supported".]

Typical cause values are:

Radio Network Layer Causes:

- UL Scrambling Code Already in Use;
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Requested Configuration not Supported;
- Invalid CM Settings;
- Number of DL Codes Not Supported.

Protocol Causes:

- Transaction not Allowed.

Miscellaneous Causes:

- Control Processing Overload;
- Not enough User Plane Processing Resources.

9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>cause group</i>				
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources NotAvailable, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, No Closed Loop Timing Adjustment Mode configured, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, <u>Number of DL Codes Not Supported,</u> ...)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

9.3.4 Information Element Definitions

A Part has been omitted.

-- C

```
Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    no-closed-loop-timing-adjustment-mode-configured,
    measurement-temporarily-not-available,
    invalid-CM-settings,
}
```

```
    unspecified,  
    number-of-DL-codes-not-supported,  
    ...  
}
```

```
CauseTransport ::= ENUMERATED {  
    transmission-link-failure,  
    transmission-port-not-available,  
    unspecified,  
    ...  
}
```

```
C-ID ::= INTEGER (0..65535)
```

A Part has been omitted.

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
25.423 CR 157 R1		Current Version: 3.2.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN #9	for approval <input type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG Use only)
<i>list expected approval meeting # here ↑</i>	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** July 2000

Subject: Introduction of temporary failure: not expired reconfiguration CFN

Work item: _____

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: The time period between receipt of the synchronised RL reconfiguration commit and when the reconfiguration CFN elapses is not reflected as a "protocol state" in the NBAP/RNSAP specifications. However, during this period a node may not be able to perform certain actions: e.g. it many cases it will not be possible to perform a RL_ADDITION during this period.

This contribution proposes to introduce the cause value "reconfiguration CFN not elapsed" (temporary failure) which can be used when certain requests can not be handled in such cases.

Although the new cause value is only indicated as a typical cause value in the RL-addition procedure, it can also be used when rejecting other dedicated procedures like a Synchronised or Unsynchronised RL_Reconfiguration.

Clauses affected: 8.3.2.3; 9.2.1.5; 9.3.4.

Other specs Affected:	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: _____ → List of CRs: _____ → List of CRs: _____ → List of CRs: _____ → List of CRs: _____
------------------------------	---	--

Other comments: _____



<----- double-click here for help and instructions on how to create a CR.

8.3.2.3 Unsuccessful Operation

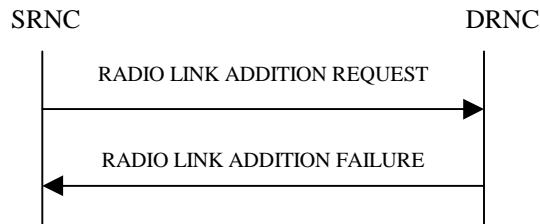


Figure 1: Radio Link Addition procedure: Unsuccessful Operation

If the establishment of at least one RL is unsuccessful, the DRNC shall send a RADIO LINK ADDITION FAILURE as response.

If some RL(s) were established successfully, the DRNC shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information IE* and the DRNS cannot provide the requested CM measurements, or if the *Transmission Gap Pattern Sequence Status IE* group repetitions in the *Active Pattern Sequence Information IE* do not address exactly all ongoing compressed mode patterns the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the RADIO LINK ADDITION REQUEST is used to terminate the on going compressed mode measurement in the new RLs (as specified above), but at least one new RL is setup in one cell that has the same UARCFN of at least one cell with an already existing RL, the DRNS shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

If the value of the *Diversity Control Field IE* of one RL is 'Must', but the DRNS cannot perform the requested combining, DRNC shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

If the DRNS is not able to establish the requested RLs due to that the DRNS has received a RADIO LINK RECONFIGURATION COMMIT and the indicated reconfiguration CFN has not yet elapsed, the DRNS shall indicate this with the cause value "Reconfiguration CFN not elapsed" in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode IE* equals "Closed loop mode1" or "Closed loop mode2" and no Closed Loop Timing Adjustment Mode is configured for a cell, establishment of the concerning RL shall fail with cause value "No Closed Loop Timing Adjustment Mode configured".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Unknown C-ID;
- Combining Resources not available ;
- Cell not Available;
- [FDD - No Closed Loop Timing Adjustment Mode configured];
- Power Level not Supported;
- Invalid CM Settings.
- Reconfiguration CFN not elapsed.

Transport Layer Causes:

- Transport Link Failure.

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- Not enough User Plane Processing Resources.

9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<i>CHOICE cause group</i>				
<i>>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources NotAvailable, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, No Closed Loop Timing Adjustment Mode configured, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not elapsed,...)	
<i>>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Link Failure, Transmission Port not Available, Unspecified, ...)	
<i>>Protocol</i>				
>>Protocol Cause			ENUMERATED (Transaction not Allowed, Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,...)	
<i>>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

-- C

```
Cause ::= CHOICE {
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

CauseProtocol ::= ENUMERATED {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scrambling-code-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    no-closed-loop-timing-adjustment-mode-configured,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    unspecified,
    ...
}

CauseTransport ::= ENUMERATED {
    transmission-link-failure,
    transmission-port-not-available,
    unspecified,
    ...
}
```


9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transport Format Set				
>Dynamic Transport Format Information		1..<maxTFcount>		
>>Number of Transport blocks	M		INTEGER (0..409512)	
>>Transport Block Size	C – Blocks		INTEGER (0..5000)	Bits
>CHOICE mode				
>>TDD				
>>>Transmission Time Interval	C-TTIdynamic	1..<maxTTIcount>	Enumerated(10, 20, 40, 80)	
>Semi-static Transport Format Information				
>>Transmission Time Interval	C-TTIsemistatic		ENUMERATED (10, 20, 40, 80)	msec
>>Type of Channel Coding	M		ENUMERATED (No coding, Convolutional, Turbo)	
>>Coding Rate	C – Coding		ENUMERATED (1/2, 1/3)	
>>Rate Matching Attribute	M		INTEGER (1..maxRM)	
>>CRC size	M		ENUMERATED (0, 8, 12, 16, 24)	
>>CHOICE mode				
>>>TDD				
>>>>2 nd Interleaving Mode	M		Enumerated (Frame related, Timeslot related)	

Condition	Explanation
Blocks	This IE is only present if "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" or "Turbo"
TTIdynamic	This IE is mandatory if not defined as semistatic parameter. Otherwise it is absent.
TTIsemistatic	This IE is mandatory if not defined as dynamic parameter. Otherwise it is absent.

Range bound	Explanation
MaxTFcount	The maximum number of different transport formats that can be included in the Transport format set for one transport channel.
MaxRM	The maximum number that could be set as rate matching attribute for a transport channel.
MaxTTIcount	The amount of different TTI that are possible for that transport format is.

9.3.4 Information Element Definitions

-- N

NrOfDLchannelisationcodes ::= INTEGER (1..8)

| NrOfTransportBlocks ::= INTEGER (0..4095512)

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 159r1

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**

list expected approval meeting # here ↑

for approval
for information

X

strategic
non-strategic

(for SMG
use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

Source:

R-WG3

Date:

July 2000

Subject:

Handling of IEs marked with "Ignore and Notify" in RNSAP Class 2 Procedures

Work item:

Category:

(only one category
shall be marked
with an X)

- F Correction
- A Corresponds to a correction in an earlier release
- B Addition of feature
- C Functional modification of feature
- D Editorial modification

Release:

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

Reason for change:

In the RNSAP specification the handling of IEs with the Criticality Information set to "Ignore and Notify" in class 2 procedures is currently not defined.

This CR clarifies that the handling of IEs with the Criticality Information set to "Ignore and Notify" in class 2 procedures is the same as for procedures with response messages, except that the reporting shall be done by the Error Indication procedure.

Clauses affected:

10.3.4.2, 10.3.5

Other specs

Other 3G core specifications

X

→ List of CRs: TS 25.413 CR130,
TS 25.419 CR12,
TS 25.433 CR189

affected:

Other GSM core
specifications
MS test specifications
BSS test specifications
O&M specifications

→ List of CRs:
→ List of CRs:
→ List of CRs:
→ List of CRs:

Other

comments:

10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* according to the following:

Reject IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- if a *response* message is received containing one or more IEs/IE groups marked with "*Reject IE*", that the receiving node does not comprehend, the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- if a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- if a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and initiate the Error Indication procedure.

Ignore IE:

- if a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

10.3.5 Missing IE or IE group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

Reject IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate the Error Indication procedure.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing.
- if a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall initiate the Error Indication procedure.

Ignore IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message.

8.3.4.2 Successful Operation

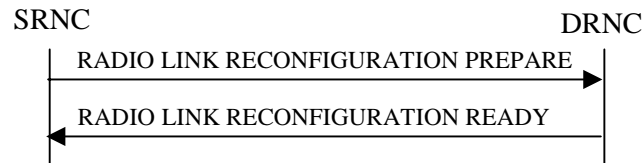


Figure 1: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the SRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the DRNC.

Upon reception, the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allowed Queuing Time* IE the DRNS may queue the request before providing a response to the SRNC.

DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Allocation/Retention Priority* IE for a DCH to be modified, the DRNS should use this information when reserving resources for this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Modify* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is present and set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to the Radio Link(s), the DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a DCHs to *Add IE* with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add IE* as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].

The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *DRAC Control* IE is set to "requested" in the RADIO LINK RECONFIGURATION PREPARE message for at least one DCH and if the DRNC supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE to be received on FACH, for each Radio Link. If the DRNC does not support DRAC, it shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be deleted from the Radio Link(s), the DRNS shall not include this DCH in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the DRNS shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes *Number of DL Channelisation Code IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* in the RADIO LINK RECONFIGURATION READY message in case it selects to change the Scrambling code change method for one or more DL Channelisation Code.]

[FDD - The DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - The DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *Diversity Mode* IE, the DRNS shall apply diversity according to the given value.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the DRNS shall apply the new Uplink DPCCH Structure to the new configuration.]

FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UL/DL CCTrCH to be modified and includes any of *TFCS* IE, *TFCI coding* IE or *Puncture limit* IE the DRNC shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD –The DRNC shall include all of the DPCH that have been modified and any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* IE, *Time Slot* IE, *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI presence* IE which have been modified in the DPCH to be modified in the RADIO LINK RECONFIGURATION READY message sent to the SRNC.]

[TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added, the DRNC shall include this CCTrCH in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted, the DRNC shall remove this CCTrCH in the new configuration.]

SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

If the requested modifications are allowed by the DRNS, and the DRNS has successfully reserved the required resources for the new configuration of the Radio Link(s) it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exist a Prepared Reconfiguration, as defined in subclause 3.1.

The DRNS decides the maximum and minimum SIR for the uplink of the Radio Link(s) and shall return this in the *Maximum Uplink SIR* IE and *Minimum Uplink SIR* IE for each Radio Link in the RADIO LINK RECONFIGURATION READY message.

In case of a set of co-ordinated DCHs requiring a new transport bearer on Iur the *DCH Information Response* IE group shall be included only for one of the DCHs in the set of co-ordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the DRNS the *DCH Information Response* IE group shall be included only for one of the combined Radio Links.

Compressed Mode Preparation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* the DRNS shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information IE* and the *Downlink compressed mode method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information IE* is set to 'SF/2', the DRNS shall include the *Transmission Gap Pattern Sequence Information Response IE* to the RADIO LINK RECONFIGURATION READY message indicating for each Channelisation Code whether the alternative scrambling code shall be used or not].

DSCH Addition/Modification/Deletion:

The DRNC shall use any included DSCH information for the DSCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message, to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each DSCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of DSCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address IE* and the *Binding ID IE* of the DSCHs being added or modified.

USCH Addition/Modification/Deletion [TDD]

The DRNC shall use any included USCH information for the USCHs to be added/modified/deleted in the RADIO LINK RECONFIGURATION PREPARE message. to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.

To add or modify each USCH, the DRNS shall use the *Allocation/Retention Priority IE*, *Scheduling Priority Indicator IE* and *TrCH Source Statistics Descriptor IE* to define a set of USCH Priority classes each of which is associated with a set of supported *MAC-c/sh SDU lengths*.

If the requested modifications are allowed by the DRNC and the DRNC has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the SRNC with the RADIO LINK RECONFIGURATION READY message.

The DRNS shall include in the RADIO LINK RECONFIGURATION READY message the *Transport Layer Address IE* and the *Binding ID IE* of the USCHs being added or modified.

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
S-RNTI	M		9.2.1.53		YES	reject
D-RNTI	O		9.2.1.24		YES	reject
Allowed Queuing Time	O		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	M		9.2.2.53		–	
>Min UL Channelisation Code Length	M		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	M		9.2.1.46	For the UL.	–	
>TFCS	M		TFCS for the UL 9.2.1.63		–	
>UL DPCH Slot Format	M		9.2.2.52		–	
>Uplink SIR Target	O		Uplink SIR 9.2.1.69		–	
>Diversity mode	M		9.2.2.8		–	
>D Field Length	C-FB		9.2.2.5		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S Field Length	O		9.2.2.36		–	
DL DPCH Information		1			YES	reject
>TFCS	M		TFCS for the DL. 9.2.1.63		–	
>DL DPCH Slot Format	M		9.2.2.9		–	
>Number of DL channelisation codes	M				–	
>TFCI Signalling Mode	M		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>Multiplexing Position	M		9.2.2.26		–	
>Power Offset Information		1			–	
>>PO1	M		Power Offset 9.2.2.30	Power offset for the TFCI bits.	–	
>>PO2	M		Power Offset 9.2.2.30	Power offset for the TPC bits.	–	
>>PO3	M		Power Offset 9.2.2.30	Power offset for the pilot bits.	–	
>FDD TPC Downlink Step Size	M		9.2.2.16		–	
>Limited Power Increase	M		9.2.1.33		–	
DCH Information		1..<maxno ofDCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
>DCH Specific Info		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	For the UL.	–	
>>BLER	M		9.2.1.3	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.2.34		–	
>>DRAC control	M		9.2.2.13		–	
DSCH Information		0..1			YES	reject
>DSCH Info		1..<maxno ofDSCHs>			EACH	reject
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID			
>TFCS	M		TFCS for the DL.	For DSCH	–	
RL Information		1...<maxn oofRLs>			EACH	notify
>RL ID	M		9.2.1.49		–	
>C-Id	M		9.2.1.6		–	
>First RLS Indicator	M				-	
>Frame Offset	M		9.2.1.30		–	
>Chip Offset	M		9.2.2.1		–	
>Propagation Delay	O		9.2.2.33		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.6		–	
>Initial DL TX Power	O		DL Power 9.2.2.10		–	
>Primary CPICH Ec/No	O		9.2.2.32		–	
>SSDT Cell Identity	O		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
SlotFormat	This IE is only present if the DL DPCH Slot Format is equal to any of the values 12 to 16.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information .
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
Allowed Queuing Time	O		9.2.1.2		YES	reject
UL DPCH Information		0..1			YES	reject
>UL Scrambling Code	O		9.2.2.53		–	
>UL SIR Target	O		Uplink SIR 9.2.1.69		–	
>Min UL Channelisation Code Length	O		9.2.2.25		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.24		–	
>Puncture Limit	O		9.2.1.46	For the UL.	–	
>TFCS	O		9.2.1.63	TFCS for the UL.	–	
>UL DPCCH Slot Format	O		9.2.2.52		–	
>Diversity mode	O		9.2.2.8		–	
>SSDT Cell Identity Length	O		9.2.2.41		–	
>S-Field Length	O		9.2.2.36		–	
DL DPCH Information		0..1			YES	reject
>TFCS	O		9.2.1.63	TFCS for the DL.	–	
>DL DPCH Slot Format	O		9.2.2.9		–	
>Number of DL channelisation codes	O				–	
>TFCI Signalling Mode	O		9.2.2.46		–	
>TFCI Presence	C- SlotFormat		9.2.1.55		–	
>MultiplexingPosition	O		9.2.2.26		–	
>Limited Power Increase	O		9.2.1.33		–	
DCHs to Modify		0..<maxnoof DCHs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.67		–	
>ToAWS	O		9.2.1.58		–	
>ToAWE	O		9.2.1.57		–	
>DCH Specific Info		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	
>>Transport Format Set	O		9.2.1.64	For the UL.	–	
>>Transport Format Set	O		9.2.1.64	For the DL.	–	
>>Allocation/Retention Priority	O		9.2.1.1		–	
>>Frame Handling Priority	O		9.2.1.29		–	
>>DRAC Control	O		9.2.2.13		–	
DCHs to Add		0..<maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.42		–	
>UL FP Mode	M		9.2.1.67		–	
>ToAWS	M		9.2.1.58		–	
>ToAWE	M		9.2.1.57		–	
>DCH Specific Info		1..<maxnoof DCHs>			–	
>>DCH ID	M		9.2.1.16		–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>>TrCh Source Statistics Descriptor	M		9.2.1.65		–	
>>Transport Format Set	M		9.2.1.64	For the UL.	–	
>>Transport Format Set	M		9.2.1.64	For the DL.	–	
>>BLER	M		9.2.1.3	For the UL.	–	
>>BLER	M		9.2.1.3	For the DL.	–	
>>Allocation/Retention Priority	M		9.2.1.1		–	
>>Frame Handling Priority	M		9.2.1.29		–	
>>QE-Selector	M		9.2.2.34		–	
>>DRAC Control	M		9.2.2.13		–	
DCHs to Delete		0..<maxnoof DCHs>			GLOBAL	reject
>DCH ID	M		9.2.1.16		–	
DSCH to modify		0..1			YES	reject
>DSCH Info		0..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	O					
>>Transport Format Set	O			For DSCH	–	
>>Allocation/Retention Priority	O				–	
>>Scheduling Priority Indicator	O				–	
>>BLER	O				–	
>PDSCH RL ID	O		RL ID		–	
>Transport Format Combination Set	O			For DSCH	–	
DSCH to add		0..1			YES	reject
>DSCH Info		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
>>TrCh Source Statistics Descriptor	M				–	
>>Transport Format Set	M			For DSCH	–	
>>Allocation/Retention Priority	M				–	
>>Scheduling Priority Indicator	M				–	
>>BLER	M				–	
>PDSCH RL ID	M		RL ID		–	
>Transport Format Combination Set	M			For DSCH	–	
DSCHs to delete		0..1			YES	reject
>DSCH Info		1..<maxnoof DSCHs>			–	
>>DSCH ID	M				–	
RL Information		0..<maxnoof RLs>			EACH	reject
>RL ID	M		9.2.1.49		–	
>SSDT Indication	O		9.2.2.41		–	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.50		=	
Transmission Gap Pattern Sequence Information	O				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 values 12 to 16.
<u>Diversity mode</u>	<u>This IE is present if Diversity Mode IE is present in UL DPCH Information group, unless it is equal to "none".</u>

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofRLs	Maximum number of RLs for a UE.

9.2.2.5 D-Field Length

Defines the D-Field size of the UL-DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D-Field Length			ENUMERATED (1,2)	

Void.

9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopModel-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    ClosedloopTimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-Power,
    DL-ScramblingCode,
    DPCHConstantValue,

```

DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
DSCH-ID,
FACH-InitialWindowSize,
SchedulingPriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
GA-AccessPointPosition,
GA-Cell,
IB-SG-POS,
IB-SG-REP,
IMSI,
ISCP,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,
RANAP-RelocationInformation,

RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,
UL-FP-Mode,
UL-ScramblingCode,


```

-- *****
--
-- RADIO LINK SETUP REQUEST FDD
--
-- *****

RadioLinkSetupRequestFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkSetupRequestFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI                CRITICALITY reject TYPE S-RNTI                PRESENCE mandatory } |
    { ID id-D-RNTI                CRITICALITY reject TYPE D-RNTI                PRESENCE optional  } |
    { ID id-AllowedQueuingTime     CRITICALITY reject TYPE AllowedQueuingTime     PRESENCE optional  } |
    { ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DCH-Information-RL-SetupRqstFDD     CRITICALITY reject TYPE DCH-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-DSCH-Information-RL-SetupRqstFDD     CRITICALITY reject TYPE DSCH-Information-RL-SetupRqstFDD PRESENCE optional  } |
    { ID id-RL-Information-RL-SetupRqstFDD       CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional } |
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode            UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs              MaxNrOfUL-DPCHs            OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 -- ,
    ul-PunctureLimit             PunctureLimit,
    ul-TFCS                       TFCS,
    ul-DPCCH-SlotFormat           UL-DPCCH-SlotFormat,
    ul-SIRTarget                  UL-SIR                OPTIONAL,
    diversityMode                 DiversityMode,
    d-FieldLength              D-FieldLength              OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellIDLength            SSDT-CellID-Length     OPTIONAL,
    s-FieldLength                 S-FieldLength         OPTIONAL,
    iE-Extensions                 ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS                           TFCS,

```

```

dl-DPCH-SlotFormat          DL-DPCH-SlotFormat,
nrOfDLchannelisationcodes  NrOfDLchannelisationcodes,
tFCI-SignallingMode        TFCI-SignallingMode,
tFCI-Presence              TFCI-Presence          OPTIONAL
-- This IE is present if Slot Format is from 12 to 16 --,
multiplexingPosition       MultiplexingPosition,
powerOffsetInformation      SEQUENCE {
  po1-ForTFCI-Bits         PowerOffset,
  po2-ForTPC-Bits          PowerOffset,
  po3-ForPilotBits         PowerOffset,
  ...
},
fdd-dl-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
limitedPowerIncrease        LimitedPowerIncrease,
IE-Extensions              ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationList-RL-SetupRqstFDD          ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
  ul-FP-Mode                        UL-FP-Mode,
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  dCH-SpecificInformationList       DCH-SpecificInformationList-RL-SetupRqstFDD,
  IE-Extensions                     ProtocolExtensionContainer { {DCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
  dCH-ID                            DCH-ID,
  trCH-SrcStatisticsDescr           TrCH-SrcStatisticsDescr,
  ul-transportFormatSet             TransportFormatSet,
  dl-transportFormatSet             TransportFormatSet,
  ul-BLER                           BLER,
  dl-BLER                           BLER,
  allocationRetentionPriority        AllocationRetentionPriority,
  frameHandlingPriority              FrameHandlingPriority,
  qE-Selector                       QE-Selector,
  dRACControl                       DRACControl,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-Information          DSCH-Info-RL-SetupRqstFDD,
    pdSCH-RL-ID              RL-ID,
    tFCS                      TFCS,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Info-RL-SetupRqstFDD ::= DSCH-IE-ContainerList {{DSCH-InformationItemIEs-RL-SetupRqstFDD} }

DSCH-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationItem-RL-SetupRqstFDD    CRITICALITY reject    TYPE DSCH-InformationItem-RL-SetupRqstFDD    PRESENCE mandatory    },
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                  DSCH-ID,
    trChSourceStatisticsDescriptor    TrCH-SrcStatisticsDescr,
    transportFormatSet          TransportFormatSet,
    allocationRetentionPriority    AllocationRetentionPriority,
    schedulingPriorityIndicator    SchedulingPriorityIndicator,
    bLER                       BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupRqstFDD          ::= RL-IE-ContainerList1 { {RL-InformationItemIEs-RL-SetupRqstFDD} }

RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD    CRITICALITY notify    TYPE RL-InformationItem-RL-SetupRqstFDD    PRESENCE mandatory    },
    ...
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID                  RL-ID,

```

```

c-ID                               C-ID,
firstRLS-indicator                 FirstRLS-Indicator,
frameOffset                        FrameOffset,
chipOffset                         ChipOffset,
propagationDelay                   PropagationDelay    OPTIONAL,
diversityControlField              DiversityControlField  OPTIONAL
-- This IE is present only if the RL is not the first one in the RL-InformationList-RL-SetupRqstFDD --,
dl-InitialTX-Power                DL-Power            OPTIONAL,
primaryCPICH-EcNo                  PrimaryCPICH-EcNo    OPTIONAL,
sSDT-CellID                        SSDT-CellID         OPTIONAL,
transmitDiversityIndicator         TransmitDiversityIndicator  OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions                      ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container    {{RadioLinkReconfigurationPrepareFDD-IEs}},
    protocolExtensions         ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime          CRITICALITY reject TYPE AllowedQueuingTime          PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-AddList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DSCH-Modify-RL-ReconfPrepFDD CRITICALITY reject TYPE DSCH-Modify-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DSCH-Add-RL-ReconfPrepFDD CRITICALITY reject TYPE DSCH-Add-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-DSCH-Delete-RL-ReconfPrepFDD CRITICALITY reject TYPE DSCH-Delete-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-InformationList-RL-ReconfPrepFDD PRESENCE optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional },
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode          OPTIONAL,
    ul-SIRTarget               UL-SIR                   OPTIONAL,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength OPTIONAL,
    maxNrOfUL-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit          PunctureLimit          OPTIONAL,
    tFCS                       TFCS              OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
    diversityMode              DiversityMode            OPTIONAL,
    sSDT-CellIDLength          SSDT-CellID-Length          OPTIONAL,
    s-FieldLength              S-FieldLength            OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS                       TFCS              OPTIONAL,
    dl-DPCH-SlotFormat         DL-DPCH-SlotFormat        OPTIONAL,
    nrOfDLchannelisationcodes  NrOfDLchannelisationcodes OPTIONAL,

```

```

tFCI-SignallingMode      TFCI-SignallingMode      OPTIONAL,
tFCI-Presence            TFCI-Presence              OPTIONAL
-- This IE is present if Slot Format is from 12 to 16 --,
multiplexingPosition     MultiplexingPosition        OPTIONAL,
limitedPowerIncrease      LimitedPowerIncrease        OPTIONAL,
iE-Extensions            ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifyList-RL-ReconfPrepFDD          ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepFDD

DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
ul-FP-Mode          UL-FP-Mode          OPTIONAL,
toAWS               ToAWS          OPTIONAL,
toAWE               ToAWE          OPTIONAL,
dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
iE-Extensions      ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID              DCH-ID,
ul-TransportformatSet TransportFormatSet      OPTIONAL,
dl-TransportformatSet TransportFormatSet      OPTIONAL,
allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
frameHandlingPriority FrameHandlingPriority    OPTIONAL,
dRACControl         DRACControl      OPTIONAL,
iE-Extensions      ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddList-RL-ReconfPrepFDD          ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode          UL-FP-Mode,
toAWS               ToAWS,

```

```

toAWE
dCH-SpecificInformationList
iE-Extensions
...
}

DCH-AddItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddSpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepFDD

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID                               DCH-ID,
trCH-SrcStatisticsDescr              TrCH-SrcStatisticsDescr,
ul-TransportformatSet                TransportFormatSet,
dl-TransportformatSet                TransportFormatSet,
ul-BLER                              BLER,
dl-BLER                              BLER,
allocationRetentionPriority           AllocationRetentionPriority,
frameHandlingPriority                FrameHandlingPriority,
qE-Selector                          QE-Selector,
dRACControl                          DRACControl,
iE-Extensions                        ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-DeleteList-RL-ReconfPrepFDD      ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD

DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID                               DCH-ID,
iE-Extensions                        ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {
dSCH-Information                      DSCH-ModifyInfo-RL-ReconfPrepFDD   OPTIONAL,
pdSCH-RL-ID                           RL-ID                               OPTIONAL,
tFCS                                    TFCS                               OPTIONAL,
iE-Extensions                          ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
...
}

```



```

DSCH-Modify-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-ReconfPrepFDD

DSCH-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet        TransportFormatSet        OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
    bLER                     BLER                      OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information        DSCH-AddInfo-RL-ReconfPrepFDD,
    pdSCH-RL-ID            RL-ID,
    tFCS                   TFCS,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Add-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-InformationItem-RL-ReconfPrepFDD

DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information        DSCH-Info-Delete-RL-ReconfPrepFDD,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-DeleteInformationItem-RL-ReconfPrepFDD

DSCH-DeleteInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

}

DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-ReconfPrepFDD-IEs} }

RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE RL-Information-RL-ReconfPrepFDD PRESENCE mandatory },
    ...
}

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID RL-ID,
    transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
    -- This IE is present if Diversity Mode IE in UL DPCH Information group is present, unless it is equal to "none"
    sSDT-Indication SSdT-Indication OPTIONAL,
    sSDT-CellIdentity SSdT-CellID OPTIONAL
    -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    iE-Extensions ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

9.3.4 Information Element Definitions

```
-- D

DCH-ID                ::= INTEGER (0..255)

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    round-trip-time,
    rx-timing-deviation,
    ...
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue     SIR-Error-Value,
    transmittedCodePowerValue  Transmitted-Code-Power-Value,
    rSCP               RSCP-Value, -- TDD only
    roundTripTime      Round-Trip-Time-Value, -- FDD only
    rxTimingDeviationValue  Rx-Timing-Deviation-Value, -- TDD only
    ...
}

DeltaSIR              ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not
}

DiversityMode         ::= ENUMERATED {
    none,
    sTTD,
    closedLoopMode1,
    closedLoopMode2
}

DL-DPCH-SlotFormat    ::= INTEGER (0..16)

DL-SIRTarget          ::= UL-SIR

DL-Power              ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB
```

```
D-RNTI ::= INTEGER (0..1048575)

D-RNTI-ReleaseIndication ::= ENUMERATED {
    release-D-RNTI,
    not-release-D-RNTI
}

DL-ScramblingCode ::= INTEGER (0..15)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling
}

DPCH-ID ::= INTEGER (0..239)

DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB

DRACControl ::= ENUMERATED {
    requested,
    not-requested
}

DRXCycleLengthCoefficient ::= INTEGER (2..12)

D-FieldLength ::= ENUMERATED {
    v1,
    v2
}

DSCH-ID ::= INTEGER (0..255)
```

3GPP- RAN-WG3 Meeting #14
Helsinki, Finland, 3-7th July 2000

Document **R3-001972**

e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423

CR 161r2

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#9**
list expected approval meeting # here ↑

for approval
for information

Strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** July 2000

Subject: Editorial correction RNSAP

Work item:

Category: (only one category shall be marked with an X)	F Correction	<input checked="" type="checkbox"/>	Release:	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
			Release 00	<input type="checkbox"/>	

Reason for change: There are some editorial mistakes in the current ASN.1. This CR provides the corrections of these mistakes. The details of corrections are described below.

9.3.3 PDU Definitions

1. RL Setup Response FDD
The structure of "DSCH Information" IE in the "DSCH Information Response" IE is changed to "SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF ..." in order to align with tabular.

2. RL Reconfiguration Prepare FDD
"DSCH Info" IE in the "DSCH to modify" IE and "DSCH Info" IE in the "DSCH to add" IE are defined separately because the presence for the IEs which are included in "DSCH Info" are different between "DSCH to modify" IE and "DSCH to add" IE.

3. RL Reconfiguration Prepare TDD
The presence for "USCH ID" IE in the "USCH to modify" IE is changed to mandatory in order to align with tabular.

9.3.4 Information Element Definitions

1. "CTFC" is removed because "CTFC" is replaced with "TFCS-CTFC".

2. In the "Dedicated Measurement Type", "Dedicated Measurement Value", and "Measurement Threshold" IE, "rx-timing-deviation" and "round-trip-time" are shuffled in order to align with tabular.

Clauses affected: 9.3.3, 9.3.4

Other specs Other 3G core specifications → List of CRs:

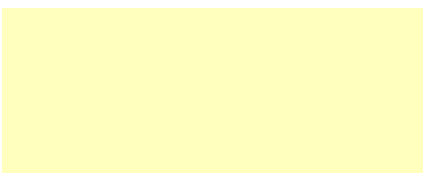
Error! Style not defined.

2

Error! Style not defined.

affected: Other GSM core specifications
MS test specifications
BSS test specifications
O&M specifications

→ List of CRs:
→ List of CRs:
→ List of CRs:
→ List of CRs:



Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.3.3 PDU Definitions

-- partly omitted --

```

-- *****
--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-
Extensions}}          OPTIONAL,
    ...
}

RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI
    PRESENCE optional     } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier
    PRESENCE optional     } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier
    PRESENCE optional     } |
    { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-
InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget    CRITICALITY ignore TYPE UL-SIR          PRESENCE
optional } |
    { ID id-DL-SIRTarget    CRITICALITY ignore TYPE DL-SIRTarget
    PRESENCE optional     } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
    PRESENCE optional     },
    ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-
InformationResponseItemIEs-RL-SetupRspFDD} }

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD
    CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD
    PRESENCE mandatory },
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    rL-Set-ID      RL-Set-ID,

```

```

    sAI                SAI,
    gA-Cell            GA-Cell    OPTIONAL,
    gA-AccessPointPosition  GA-AccessPointPosition    OPTIONAL,
    ul-InterferenceLevel  UL-InterferenceLevel,
    secondary-CCPCH-Info  Secondary-CCPCH-Info-RL-SetupRspFDD    OPTIONAL,
    dl-CodeInformation    DL-CodeInformationList-RL-SetupRspFDD,
    diversityIndication  DiversityIndication-RL-SetupRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
    indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator  SSDT-SupportIndicator,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    closedloopoptimingadjustmentmode  Closedloopoptimingadjustmentmode    OPTIONAL,
    maximumAllowedULTxPower  MaximumAllowedULTxPower,
    dSCHInformationResponse  DSCH-InformationResponse-RL-SetupRspFDD    OPTIONAL,
    neighbouring-CellInformation  Neighbouring-CellInformationList-RL-SetupRsp    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-
    SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEQUENCE {
    fDD-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
    dl-ScramblingCode       DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    dl-TFCS                 TFCS,
    secondaryCCPCH-SlotFormat  SecondaryCCPCH-SlotFormat,
    tFCI-Presence           TFCI-Presence    OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to
17
    multiplexingPosition    MultiplexingPosition,
    sTTD-Indicator          STTD-Indicator,
    fACH-PCH-InformationList  FACH-PCH-InformationList-RL-SetupRspFDD,
    schedulingInformation    SchedulingInformation-RL-SetupRspFDD,
    iE-Extensions           ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-
    SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-
InformationItem-RL-SetupRspFDD

FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
    transportFormatSet      TransportFormatSet,
    iE-Extensions           ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-
    SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
    iB-SG-Rep              IB-SG-REP,
    segmentInformationList  SegmentInformationList-RL-SetupRspFDD,
    iE-Extensions           ProtocolExtensionContainer { { SchedulingInformation-RL-
    SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-
SetupRspFDD

SegmentInformationItem-RL-SetupRspFDD ::= SEQUENCE {

```

```

    iB-SG-POS
    iE-Extensions
SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-
CodeInformationItem-RL-SetupRspFDD

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response  Transmission-Gap-Pattern-
Sequence-Information-Response OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupRspFDD
}}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD  CRITICALITY ignore TYPE
DiversityIndicationItem-RL-SetupRspFDD  PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                        Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL           NonCombiningOrFirstRL-RL-SetupRspFDD,
    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE CombiningItem-RL-SetupRspFDD
PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                            RL-ID,
    iE-Extensions                    ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs}
} OPTIONAL,
    ...
}

CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-
SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE
NonCombiningOrFirstRLItem-RL-SetupRspFDD  PRESENCE mandatory },
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-SetupRspFDD  DCH-InformationResponseList-RL-SetupRspFDD
OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```



```

}
...
DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-SetupRspFDD

DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseIE-RL-
SetupRspFDD }}

DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-
InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dschInformationList DSCHInformationList-RL-SetupRspFDD,
    pdSCHCodeMapping    PDSCHCodeMapping,
    iE-Extensions       ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCHInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCHInformationItem-RL-
SetupRspFDD

DSCHInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator      PriorityIndicator-RL-SetupRspFDD,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspFDD-ExtIEs}
} OPTIONAL,
    ...
}

DSCHInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD

PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
    iE-Extensions             ProtocolExtensionContainer { {PriorityIndicatorItem-RL-
SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-
SDU-Length

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF
ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-SetupRsp }}

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-Neighbouring-CellInformationItem-RL-SetupRsp CRITICALITY ignore TYPE
      Neighbouring-CellInformationItem-RL-SetupRsp PRESENCE mandatory },
    ...
  }

Neighbouring-CellInformationItem-RL-SetupRsp ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-SetupRsp OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-SetupRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-
CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-FDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF
Per-FDD-Cell-InformationItem-RL-SetupRsp

Per-FDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNu UARFCN,
  uARFCNforNd UARFCN,
  frameOffset FrameOffset OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  txDiversityIndicator TxDiversityIndicator,
  STTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
  closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-
RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF
Per-TDD-Cell-InformationItem-RL-SetupRsp

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNt UARFCN,
  frameOffset FrameOffset OPTIONAL,
  cellParameterID CellParameterID,
  syncCase SyncCase,
  timeSlot TimeSlot OPTIONAL
  -- This IE is present only if Sync Case = Case1 -- ,
  sCH-TimeSlot SCH-TimeSlot OPTIONAL
  -- This IE is present only if Sync Case = Case2 -- ,
  block-STTD-Indicator Block-STTD-Indicator,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  dPCHConstantValue DPCHConstantValue OPTIONAL,
  pCCPCH-Power PCCPCH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-
SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- partly omitted --

-- *****
--

```

```

-- RADIO LINK RECONFIGURATION PREPARE FDD
--
-- *****

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkReconfigurationPrepareFDD-
    IEs}},
    protocolExtensions        ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-
    Extensions}}
    OPTIONAL,
    ...
}

RadioLinkReconfigurationPrepareFDD-IES RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime                CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-DPCH-Information-RL-ReconfPrepFDD                CRITICALITY reject  TYPE UL-DPCH-
    Information-RL-ReconfPrepFDD                PRESENCE optional } |
    { ID id-DL-DPCH-Information-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DL-DPCH-
    Information-RL-ReconfPrepFDD                PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DCH-ModifyList-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DCH-AddList-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DCH-DeleteList-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-DSCH-Modify-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DSCH-Modify-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-DSCH-Add-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DSCH-Add-RL-ReconfPrepFDD
    PRESENCE optional } |
    { ID id-DSCH-Delete-RL-ReconfPrepFDD                CRITICALITY reject  TYPE DSCH-Delete-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD                CRITICALITY reject  TYPE RL-InformationList-RL-
    ReconfPrepFDD                PRESENCE optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information                CRITICALITY reject  TYPE Transmission-
    Gap-Pattern-Sequence-Information                PRESENCE optional },
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode                UL-ScramblingCode                OPTIONAL,
    ul-SIRTarget                UL-SIR                OPTIONAL,
    minUL-ChannelisationCodeLength                MinUL-ChannelisationCodeLength                OPTIONAL,
    maxNrOfUL-DPDCHs                MaxNrOfUL-DPDCHs                OPTIONAL
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit                PunctureLimit                OPTIONAL,
    tFCS                TFCS                OPTIONAL,
    ul-DPCCH-SlotFormat                UL-DPCCH-SlotFormat                OPTIONAL,
    sSDT-CellIDLength                SSDT-CellID-Length                OPTIONAL,
    s-FieldLength                S-FieldLength                OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {UL-DPCH-Information-RL-
    ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS                TFCS                OPTIONAL,
    dl-DPCH-SlotFormat                DL-DPCH-SlotFormat                OPTIONAL,
    nrOfDLchannelisationcodes                NrOfDLchannelisationcodes                OPTIONAL,
    tFCI-SignallingMode                TFCI-SignallingMode                OPTIONAL,
    tFCI-Presence                TFCI-Presence                OPTIONAL
    -- This IE is present if Slot Format is from 12 to 16 --,
    multiplexingPosition                MultiplexingPosition                OPTIONAL,
    limitedPowerIncrease                LimitedPowerIncrease                OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {DL-DPCH-Information-RL-
    ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-
RL-ReconfPrepFDD

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```

DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS               ToAWS               OPTIONAL,
    toAWE               ToAWE               OPTIONAL,
    dCH-SpecificInformationList
    iE-Extensions      DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
    ReconfPrepFDD-ExtIEs } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfPrepFDD

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-TransportformatSet
    dl-TransportformatSet
    allocationRetentionPriority
    frameHandlingPriority
    dRACControl         DRACControl         OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
    ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepFDD                ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-
ReconfPrepFDD

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    dCH-SpecificInformationList        DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
    iE-Extensions                      ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepFDD-
    ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfPrepFDD

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    trCH-SrcStatisticsDescr
    ul-TransportformatSet
    dl-TransportformatSet
    ul-BLER             BLER,
    dl-BLER             BLER,
    allocationRetentionPriority
    frameHandlingPriority
    qE-Selector         QE-Selector,
    dRACControl         DRACControl,
    iE-Extensions      ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
    ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-DeleteList-RL-ReconfPrepFDD                ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfPrepFDD

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```

DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions        ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information      DSCH-ModifyInfo-RL-ReconfPrepFDD OPTIONAL,
    pdSCH-RL-ID          RL-ID OPTIONAL,
    tFCS                 TFCS OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-Modify-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-ModifyInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyInformationItem-
RL-ReconfPrepFDD

DSCH-ModifyInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet      TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
    bLER                   BLER OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Add-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information      DSCH-AddInfo-RL-ReconfPrepFDD,
    pdSCH-RL-ID          RL-ID,
    tFCS                 TFCS,
    iE-Extensions        ProtocolExtensionContainer { {DSCH-Add-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-Add-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddInfo-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-AddInformationItem-RL-
ReconfPrepFDD

DSCH-AddInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet      TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-AddInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-AddInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information      DSCH-Info-Delete-RL-ReconfPrepFDD,

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```

    iE-Extensions
ExtIEs} } OPTIONAL,
    ...
}

DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-
DeleteInformationItem-RL-ReconfPrepFDD

DSCH-DeleteInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-
ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= RL-IE-ContainerList0 { {RL-Information-RL-
ReconfPrepFDD-IEs} }

RL-Information-RL-ReconfPrepFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-ReconfPrepFDD    CRITICALITY reject  TYPE RL-Information-RL-
ReconfPrepFDD    PRESENCE mandatory },
    ...
}

RL-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sSDT-Indication      SSDT-Indication    OPTIONAL,
    sSDT-CellIdentity    SSDT-CellID       OPTIONAL
    -- The IE may be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    iE-Extensions          ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-
ExtIEs} } OPTIONAL,
    ...
}

RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- partly omitted --

-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****

RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationPrepareTDD-
IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-
Extensions}}
    ...
}

RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-AllowedQueuingTime    CRITICALITY reject  TYPE AllowedQueuingTime
    PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD    CRITICALITY notify  TYPE UL-CCTrCH-
InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD    CRITICALITY notify  TYPE UL-CCTrCH-
InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD    CRITICALITY notify  TYPE UL-CCTrCH-
InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD    CRITICALITY notify  TYPE DL-CCTrCH-
InformationAddList-RL-ReconfPrepTDD PRESENCE optional } |

```

```

    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-
InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-
InformationDeleteList-RL-ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-ModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-AddList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-DeleteList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-ModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-AddList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-DeleteList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-ModifyList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-AddList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-AddList-RL-
ReconfPrepTDD PRESENCE optional } |
    { ID id-USCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-DeleteList-RL-
ReconfPrepTDD PRESENCE optional },
    ...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-
AddInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-
AddInformation-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtTrCH-ID CCTrCH-ID,
    tFCS TFCS,
    tFCI-Coding TFCI-Coding,
    punctureLimit PunctureLimit,
    iE-Extensions ProtocolExtensionContainer { {UL-CCTrCH-AddInformation-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCtTrCH-ID CCTrCH-ID,
    tFCS TFCS OPTIONAL,
    tFCI-Coding TFCI-Coding OPTIONAL,
    punctureLimit PunctureLimit OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {UL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD-IEs} }

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

```

```

}

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    iE-Extensions      ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
AddInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS               TFCS,
    tFCI-Coding        TFCI-Coding,
    punctureLimit      PunctureLimit,
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationModifyItem-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS               TFCS          OPTIONAL,
    tFCI-Coding        TFCI-Coding   OPTIONAL,
    punctureLimit      PunctureLimit  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-
RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= CCTrCH-IE-ContainerList0 { {DL-CCTrCH-
DeleteInformation-RL-ReconfPrepTDD-IEs} }

DL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD  CRITICALITY notify  TYPE DL-CCTrCH-
InformationDeleteItem-RL-ReconfPrepTDD PRESENCE mandatory },
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    iE-Extensions      ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-
RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-ModifyItem-
RL-ReconfPrepTDD

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS               ToAWS              OPTIONAL,
    toAWE               ToAWE              OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { {DCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID       CCTrCH-ID          OPTIONAL,
    dl-CCTrCH-ID       CCTrCH-ID          OPTIONAL,
    ul-TransportformatSet TransportFormatSet OPTIONAL,
    dl-TransportformatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { {DCH-ModifySpecificItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-AddItem-RL-
ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS               ToAWS,
    toAWE               ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { {DCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
AddSpecificItem-RL-ReconfPrepTDD

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID       CCTrCH-ID,
    dl-CCTrCH-ID       CCTrCH-ID,
    trCH-SrcStatisticsDescr TrCH-SrcStatisticsDescr,
    ul-TransportformatSet TransportFormatSet,
    dl-TransportformatSet TransportFormatSet,
    ul-BLER             BLER,
    dl-BLER             BLER,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector         QE-Selector,
    iE-Extensions      ProtocolExtensionContainer { {DCH-AddSpecificItem-RL-
ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-
RL-ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    iE-Extensions         ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-
ReconfPrepTDD

DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
    bLER                   BLER OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-AddItem-RL-ReconfPrepTDD

DSCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-ccTrCHID            CTrCH-ID,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr,
    transportFormatSet     TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    bLER                   BLER,
    iE-Extensions         ProtocolExtensionContainer { {DSCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-DeleteItem-RL-
ReconfPrepTDD

DSCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions         ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-ModifyItem-RL-
ReconfPrepTDD

USCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID OPTIONAL,
    ul-ccTrCHID            CTrCH-ID OPTIONAL,
    trChSourceStatisticsDescriptor TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet     TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,

```

Error! Style not defined.

Error! Style not defined.

```

    schedulingPriorityIndicator      SchedulingPriorityIndicator      OPTIONAL,
    bLER                             BLER                             OPTIONAL,
    rb-Info                          RB-Info,
    iE-Extensions                    ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

```

```

USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-AddItem-RL-ReconfPrepTDD

```

```

USCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                          USCH-ID,
    ul-ccTrCHID                     CCTrCH-ID,
    trChSourceStatisticsDescriptor   TrCH-SrcStatisticsDescr,
    transportFormatSet              TransportFormatSet,
    allocationRetentionPriority      AllocationRetentionPriority,
    schedulingPriorityIndicator      SchedulingPriorityIndicator,
    bLER                             BLER,
    rb-Info                          RB-Info,
    iE-Extensions                    ProtocolExtensionContainer { {USCH-AddItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

```

```

USCH-AddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-
ReconfPrepTDD

```

```

USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                          USCH-ID,
    iE-Extensions                    ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-
ExtIEs} } OPTIONAL,
    ...
}

```

```

USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RadioLinkReconfigurationPrepareTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

-- partly omitted --

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL RESOURCES RESPONSE TDD
--
-- *****

```

```

CommonTransportChannelResourcesResponseTDD ::= SEQUENCE {
    protocolIEs                      ProtocolIE-Container
    {{CommonTransportChannelResourcesResponseTDD-IEs}},
    protocolExtensions               ProtocolExtensionContainer
    {{CommonTransportChannelResourcesResponseTDD-Extensions}}      OPTIONAL,
    ...
}

```

```

CommonTransportChannelResourcesResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-S-RNTI                    CRITICALITY ignore TYPE S-RNTI          PRESENCE
mandatory } |
    { ID id-C-RNTI                    CRITICALITY ignore TYPE C-RNTI          PRESENCE
optional } |
    { ID id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-
InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE FACH-
InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD PRESENCE optional } |
    { ID id-RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD CRITICALITY ignore TYPE RACH-
InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD PRESENCE optional } |
}

```

Error! Style not defined.

Error! Style not defined.

```
{ ID id-URA-ID CRITICALITY ignore TYPE URA-ID PRESENCE
optional } |
{ ID id-MultipleURAsIndicator CRITICALITY ignore TYPE MultipleURAsIndicator
PRESENCE optional } |
{ ID id-RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD PRESENCE optional } |
{ ID id-TransportLayerAddress CRITICALITY ignore TYPE TransportLayerAddress
PRESENCE optional } |
{ ID id-BindingID CRITICALITY ignore TYPE BindingID PRESENCE
optional } |
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
PRESENCE optional },
...
}

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
priorityIndicatorAndInitialWindowSizes PriorityIndicatorAndInitialWindowSizeList-CTCH-
ResourceRspTDD,
iE-Extensions ProtocolExtensionContainer { {FACH-InfoForUESelectedS-CCPCH-
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
...
}

FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

PriorityIndicatorAndInitialWindowSizeList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{
PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
...
}

PriorityIndicatorAndInitialWindowSizeListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16)) OF
PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD ::= SEQUENCE {
fACH-PriorityIndicator SchedulingPriorityIndicator,
mAC-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD,
fACH-InitialWindowSize FACH-InitialWindowSize,
iE-Extensions ProtocolExtensionContainer {
{PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
...
}

PriorityIndicatorAndInitialWindowSizeItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-c-sh-SDU-LengthListIEs-
CTCH-ResourceRspTDD }}

MAC-c-sh-SDU-LengthListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-c-sh-
SDU-LengthListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
...
}

MAC-c-sh-SDU-LengthListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcshSDU-Length)) OF
MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD

MAC-c-sh-SDU-LengthItem-CTCH-ResourceRspTDD ::= SEQUENCE {
mAC-c-sh-SDU-Length MAC-c-sh-SDU-Length,
iE-Extensions ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthList-CTCH-
ResourceRspTDD-ExtIEs} } OPTIONAL,
...
}

MAC-c-sh-SDU-LengthList-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD ::= SEQUENCE {
dl-TFCS TFCS,
secondaryCCPCHs SecondaryCCPCHList-CTCH-ResourceRspTDD,
```

```

    iE-Extensions
    ProtocolExtensionContainer { {FACH-InfoForDRNCSelectedS-CCPCH-
    CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-InfoForDRNCSelectedS-CCPCH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SecondaryCCPCHList-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ SecondaryCCPCHListIEs-CTCH-
ResourceRspTDD }}

SecondaryCCPCHListIEs-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCCPCHListIE-CTCH-ResourceRspTDD CRITICALITY ignore TYPE
    SecondaryCCPCHListIE-CTCH-ResourceRspTDD PRESENCE mandatory },
    ...
}

SecondaryCCPCHListIE-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF
SecondaryCCPCHItem-CTCH-ResourceRspTDD

SecondaryCCPCHItem-CTCH-ResourceRspTDD ::= SEQUENCE {
    tDD-ChannelisationCode TDD-ChannelisationCode,
    timeSlot TimeSlot,
    burstType BurstType,
    midambleShift MidambleShift,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    priorityIndicatorAndInitialWindowSizeList-option PriorityIndicatorAndInitialWindowSizeList-
option-CTCH-ResourceRspTDD,
    iE-Extensions ProtocolExtensionContainer {{SecondaryCCPCHItem-CTCH-
ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

SecondaryCCPCHItem-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicatorAndInitialWindowSizeList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{
PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD }}

PriorityIndicatorAndInitialWindowSizeListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD CRITICALITY
    ignore TYPE PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD PRESENCE
    mandatory },
    ...
}

PriorityIndicatorAndInitialWindowSizeListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..16))
OF PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    fACH-PriorityIndicator SchedulingPriorityIndicator,
    MAC-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD,
    fACH-InitialWindowSize FACH-InitialWindowSize,
    iE-Extensions ProtocolExtensionContainer {
    {PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorAndInitialWindowSizeItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION
::= {
    ...
}

MAC-c-sh-SDU-LengthList-option-CTCH-ResourceRspTDD ::= ProtocolIE-Container {{ MAC-c-sh-SDU-
LengthListIEs-option-CTCH-ResourceRspTDD }}

MAC-c-sh-SDU-LengthListIEs-option-CTCH-ResourceRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD CRITICALITY ignore TYPE MAC-
c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD PRESENCE mandatory },
    ...
}

MAC-c-sh-SDU-LengthListIE-option-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (1..maxNrOfMACcshSDU-
Length)) OF MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD

```

```

MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD ::= SEQUENCE {
    mAC-c-sh-SDU-Length          MAC-c-sh-SDU-Length,
    iE-Extensions                ProtocolExtensionContainer { {MAC-c-sh-SDU-LengthItem-option-
CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

MAC-c-sh-SDU-LengthItem-option-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD ::= SEQUENCE {
    tDD-ChannelisationCode      TDD-ChannelisationCode,
    timeSlot                    TimeSlot,
    pRACH-Midamble              PRACH-Midamble OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { RACH-InfoForDRNCSelectedPRACH-
CTCH-ResourceRspTDD-ExtIEs } } OPTIONAL,
    ...
}

RACH-InfoForDRNCSelectedPRACH-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD ::= SEQUENCE (SIZE (0..maxRNCinURA-1)) OF
RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD

RNCsWithCellsInTheAccessedURA-Item-CTCH-ResourceRspTDD ::= SEQUENCE {
    rNC-ID                      RNC-ID,
    iE-Extensions                ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-
List-CTCH-ResourceRspTDD-ExtIEs} } OPTIONAL,
    ...
}

RNCsWithCellsInTheAccessedURA-List-CTCH-ResourceRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelResourcesResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
-- partly omitted --
```

9.3.4 Information Element Definitions

```
-- partly omitted --
```

```

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode                ProcedureCode          OPTIONAL,
    triggeringMessage             TriggeringMessage     OPTIONAL,
    criticalityResponse           Criticality            OPTIONAL,
    transactionID                TransactionID        OPTIONAL,
    iEsCriticalityResponses       CriticalityDiagnostics-IE-List,
    iE-Extensions                ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} }
OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse           Criticality,
    iE-ID                        ProtocolIE-ID,
    repetitionNumber             RepetitionNumber      OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} }
} OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
CTFC ::= INTEGER (0..maxCTFC)
```

```
CN-CS-DomainIdentifier ::= SEQUENCE {
    pLMN-ID          PLMN-ID,
    lAC              LAC,
    iE-Extensions    ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs} } OPTIONAL
}
```

```
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
-- partly omitted --
```

```
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
round trip time,
    rx-timing-deviation,
round-trip-time,
    ...
}
```

```
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue    SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
    rSCP              RSCP-Value, -- TDD only
roundTripTime      Round-Trip-Time-Value, -- FDD only
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- TDD only
roundTripTime      Round-Trip-Time-Value, -- FDD only
    ...
}
```

```
-- partly omitted --
```

```
MeasurementThreshold ::= CHOICE {
    sir                SIR-Value,
    sir-error          SIR-Error-Value,
    transmitted-code-power Transmitted-Code-Power-Value,
    rscp               RSCP-Value,
round trip time      Round-Trip-Time-Value,
    rx-timing-deviation Rx-Timing-Deviation-Value,
round-trip-time      Round-Trip-Time-Value,
    ...
}
```

```
-- partly omitted --
```

```
TFCS ::= SEQUENCE {
    tFCSvalues          CHOICE {
        no-Split-in-TFCI      TFCS-TFCSList,
        split-in-TFCI         SEQUENCE {
            transportFormatCombination-DCH TFCS-DCHList,
            signallingMethod              CHOICE {
                tFCI-Range              TFCS-MappingOnDSCHList,
                explicit                 TFCS-DSCHList
            }
        }
    },
    iE-Extensions      ProtocolExtensionContainer { { TFCS-ExtIEs} } OPTIONAL,
    ...
}
```

```
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCS)) OF
    SEQUENCE {
        cTFC          TFCS-CTFC,
        tFC-Beta      TransportFormatCombination-Beta OPTIONAL,
        iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs} } OPTIONAL,
        ...
    }
}
```

```
TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC ::= INTEGER (0..maxCTFC)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCICombs)) 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 ::= {
    ...
}
```


CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.433 CR 012r1

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#9**
list expected approval meeting # here
↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

Subject:

Alignment to RRC CRs 363 and 362

Work item:

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:

Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

• **Alignment to RRC CR 363 (R2-001173):**

The value range for the IB_SG_POS and IB_SG_REP has been increased to 4094 and 4096 respectively.

• **Alignment to RRC CR 362 (R2-001252):**

The RRC CR 362 changes the scheduling of the system information blocks due to the size of the SIB 16. It is now allowed to schedule system information blocks more than once with different content. The scheduling information is provided for each occurrence of the system information block. However, the multiple occurrence is currently limited to SIB16 in the RRC specification.

This CR proposes a more generic approach in order to prepare for multiple occurrences of all IB types in one SYSTEM INFORMATION UPDATE REQUEST message.

The Range Bound for the maxIB is increased from 32 to 64 in order to accommodate for multiple occurrences of the SIB 16 in the SYSTEM INFORMATION UPDATE REQUEST message.

• **Additional corrections:**

- The SIB 15 and 16 are added to IB Type IE definition.
- Additional indentation in the Choice.
- IB and Deletion in the Choice are changed to italic.

Clauses affected:

8.2.16.2, 8.2.16.3, 9.1.33, 9.2.1.33, 9.2.1.34, 9.2.1.35, 9.2.1.xx, 9.3.3, 9.3.4, and 9.3.7

Other specs affected:

Other 3G core specifications
Other GSM core specifications
MS test specifications
BSS test specifications
O&M specifications

	→ List of CRs:
	→ List of CRs:
	→ List of CRs:
	→ List of CRs:
	→ List of CRs:



Other comments:



<----- double-click here for help and instructions on how to create a CR

8.2.16.2 Successful Operation

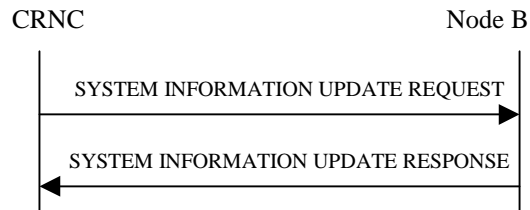


Figure 22: System Information Update procedure: Successful Operation

The procedure is initiated with a SYSTEM INFORMATION UPDATE REQUEST message sent from the CRNC to the Node B.

The Node B shall consider the requested updates to the BCCH schedule in the same order as the MIB/SIB information is included in the SYSTEM INFORMATION UPDATE REQUEST message.

If the SYSTEM INFORMATION UPDATE message includes the BCCH Modification Time IE, the updates to the BCCH schedule (possibly consisting of IB occurrence additions, IB occurrence deletions and IB occurrence content updates) indicated in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by Node B at the first time instance starting from the SFN value set by the BCCH Modification Time IE. If no BCCH Modification Time IE is included, the updates to the BCCH schedule shall be applied as soon as possible.

Information Block addition

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SIB, the Node-B shall assume that all segments for that Information Block are included in the message and ordered with increasing Segment Index (starting from 0).

The Node B shall determine the correct cell system frame number(s) (SFN) for transmission of the segments of system information, from the scheduling parameters provided in the SYSTEM INFORMATION UPDATE REQUEST message. The SFN for transmitting the segments shall be determined by the *SIB SG REP* IE and *SIB SG POS* IE such that:

$$- \text{SFN mod IB_SG_REP} = \text{IB_SG_POS}$$

If the SYSTEM INFORMATION UPDATE REQUEST message contains Master Information Block (MIB) segments in addition to SIB segments, the MIB segments shall first be sent in the physical channel by the Node B. Once these MIB segments have been sent in the physical channel, the updated SIB segments shall then be sent in the physical channel.

Only if the inclusion of each new IB segment in the BCCH schedule leads to a valid segment combination according to [18], the Node B shall accept the system information update.

If the SIB Originator IE value is set to 'Node B' the Node B shall create the SIB segment of the SIB type given by the IB Type IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the IB SG REP IE and IB SG POS IE.

SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

Information Block deletion

If the *IB Deletion Indicator* IE value is set to 'Deletion' the Node B shall delete the IB ~~of the type~~ indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

Information Block update

If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB and there is already an IB in the BCCH schedule with the same IB Type and *IB OC ID* which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB segments are included, then the Node B shall only update the contents of the IB segments without any modification in segment scheduling.

If the Node B successfully completes the updating of the physical channel scheduling cycle according to the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond to the CRNC with a SYSTEM INFORMATION UPDATE RESPONSE message.

8.2.16.3 Unsuccessful Operation

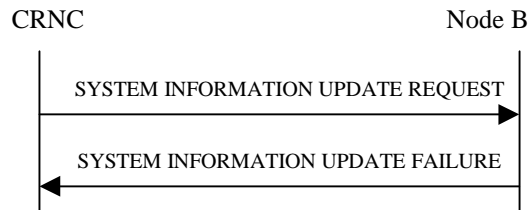


Figure 23: System Information Update procedure: Unsuccessful Operation

If the Node B is unable to update the physical channel scheduling cycle according to all the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond with a SYSTEM INFORMATION UPDATE FAILURE message with an appropriate cause value. No changes to the BCCH schedule are made in this case.

Node B shall reject, with cause value ‘SIB origination in Node B not supported’, requests for Node B originated system information blocks that make use of a value tag.

Node B shall reject the requested update with cause value “BCCH scheduling error” if:

- after having handled a certain MIB/SIB information IE group repetition, an illegal BCCH schedule results;
- if a MIB/SIB information IE group repetition includes an *IB SG REP* IE or an *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;
- if a MIB/SIB information IE group repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is no IB in the BCCH schedule with the same IB Type and IB OC ID;
- if a MIB/SIB information IE group repetition includes no *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SIB information IE group repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated;

Possible cause values are:

Radio Network Layer Cause

- Insufficient physical channel resources
- Unknown C-ID
- SIB Origination in Node B not Supported
- BCCH scheduling error

Miscellaneous Cause

- Hardware failure
- Control Processing overload
- O&M Intervention
- Unspecified

In the case of failure, the Node B shall not incorporate any of the requested changes into the physical channel scheduling cycle, and the previous system information configuration shall remain intact.

9.1.33 SYSTEM INFORMATION UPDATE 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		-	
C-ID	M		9.2.1.9		YES	reject
BCCH Modification Time	O		9.2.1.3		YES	reject
MIB/SIBInformation		1..maxIB			GLOBAL	reject
>IB Type	M		9.2.1.35	In one message, every IB Type can only be deleted once and/or added once.	-	
>IB OC ID	<u>M</u>		<u>9.2.1.xx</u>	<u>In one message, every occurrence of IB Type can only be deleted once and/or added once.</u>	-	
>CHOICE IB-IB DeletionIndicator						
>>NoDeletion					YES	reject
>>>SIB Originator	C-NotMIB		9.2.1.55		-	
>>>IB SG REP	O		9.2.1.34		-	
>>>Segment Information		1..maxIBSEGE			GLOBAL	reject
>>>>IB SG POS	O		9.2.1.33		-	
>>>>IB SG DATA	C – CRNCOri gination		9.2.1.32		-	
>> Deletion Deletion			NULL			

Range bound	Explanation
1..maxIB	Maximum number of information Blocks supported in one message.
1..maxIBSEGE	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOri gination	The IE shall be present if the SIB Originator IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

9.2.1.33 IB_SG_POS

First position of an Information Block segment in the SFN cycle (IB_SG_POS < IB_SG_REP).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG POS			INTEGER (0.. 20464094)	Only even positions allowed. Reference [18]

9.2.1.34 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when $SFN \bmod IB_SG_REP = IB_SG_POS$.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG REP			ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096)	Repetition period for the IB segment in frames

9.2.1.35 IB Type

The IB type identifies a specific system information block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB Type			Enumerated (MIB, SIB1, SIB2 SIB3, SIB4, SIB5, SIB6, SIB7, SIB8, SIB9, SIB10, SIB11, SIB12, SIB13, SIB13.1 SIB13.2, SIB13.3, SIB13.4, SIB14, <u>SIB15</u> , <u>SIB16</u> , ...)	

9.2.1.XX IB_OC_ID

The IB_OC_ID identifies the occurrence of a specific Information Block.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>IB_OC_ID</u>			<u>INTEGER (1.. 16)</u>	

9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
```

```

CPCH-Allowed-Total-Rate,
CPCHScramblingCodeNumber,
CPCH-UL-DPCCH-SlotFormat,
CRNC-CommunicationContextID,
DCH-ID,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
D-FieldLength,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-or-Global-CapacityCredit,
DL-Power,
DLPowerAveragingWindowSize,
DL-ScramblingCode,
DL-TimeslotISCP,
DL-TPC-Pattern01Count,
DPCH-ID,
DSCH-ID,
-- to do
DSCH-TFS,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
IB-OC-ID,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
IndicationType,
LimitedPowerIncrease,
Local-Cell-ID,

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- *****
--
-- SYSTEM INFORMATION UPDATE REQUEST
--
-- *****

```

```

SystemInformationUpdateRequest ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{SystemInformationUpdateRequest-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{SystemInformationUpdateRequest-Extensions}}    OPTIONAL,
    ...

```

```

}

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory
  }|
  { ID id-BCCH-ModificationTime CRITICALITY reject TYPE BCCH-ModificationTime PRESENCE optional }|
  { ID id-MIB-SIB-InformationList-SystemInfoUpdateRqst CRITICALITY reject TYPE MIB-SIB-InformationList-SystemInfoUpdateRqst
  PRESENCE mandatory },
  ...
}

SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MIB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SIB-InformationItem-SystemInfoUpdateRqst

MIB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
  iB-Type IB-Type,
  iB-OC-ID IB-OC-ID,
  deletionIndicator DeletionIndicator-SystemInfoUpdate,
  iE-Extensions ProtocolExtensionContainer { { MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs } } OPTIONAL,
  ...
}

MIB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
  no-Deletion No-Deletion-SystemInfoUpdate,
  yes-Deletion NULL,
  ...
}

No-Deletion-SystemInfoUpdate ::= ProtocolIE-Container {{ No-DeletionIE-SystemInfoUpdate }}

No-DeletionIE-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
  { ID id-No-DeletionItem-SystemInfoUpdate CRITICALITY reject TYPE No-DeletionItem-SystemInfoUpdate PRESENCE mandatory },
  ...
}

No-DeletionItem-SystemInfoUpdate ::= SEQUENCE {
  sIB-Originator SIB-Originator OPTIONAL,
  -- This IE shall be present if the IB-Type is not equal to "MIB"
  iB-SG-REP IB-SG-REP OPTIONAL,
  segmentInformationList SegmentInformationList-SystemInfoUpdate,
  iE-Extensions ProtocolExtensionContainer { { No-DeletionItem-SystemInfoUpdate-ExtIEs } } OPTIONAL,
  ...
}

```

```

No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
    { ID id-SegmentInformationListIE-SystemInfoUpdate    CRITICALITY reject    TYPE SegmentInformationListIE-SystemInfoUpdate    PRESENCE mandatory },
    ...
}

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS                OPTIONAL,
    iB-SG-DATA                IB-SG-DATA                OPTIONAL,
    -- This IE shall be present if the SIB Originator IE is set to "CRNC"
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

<Editor's note: The rest of the ASN.1 module is skipped.>

9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

```

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

```

<Editor's note: Parts of the ASN.1 module is skipped.>

```

-- =====
-- I
-- =====

```

```

| IB-OC-ID ::= INTEGER (1..16)

```

```

IB-SG-DATA ::= BIT STRING

```

```

| IB-SG-POS ::= INTEGER (0..20464094)

```

```

-- Only even positions allowed

```

```

| IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}

```

```

IB-Type ::= ENUMERATED {
  mib,
  sib1,
  sib2,
  sIB3,
  sIB4,
  sIB5,
  sIB6,
  sIB7,
  sIB8,
  sIB9,
  sIB10,
  sIB11,
  sib12,
  sIB13,
  sIB13dot1,
  sIB13dot2,
  sIB13dot3,
  sIB13dot4,
  sIB14,

```

```
| sIB15,  
| sIB16,  
| ...  
| }  
  
IndicationType ::= ENUMERATED {  
    noFailure,  
    serviceImpacting,  
    ...  
}  
  
ITPPRM ::= ENUMERATED {  
    mode-0,  
    mode-1  
}  
  
-- =====  
-- J  
-- =====
```

<Editor's note: The rest of the ASN.1 module is skipped.>

```

--9.3.7 Constant Definitions for NBAP
-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

<Editor's note: Parts of the ASN.1 module is skipped.>

-- *****
--
-- Lists
--
-- *****

maxNrOfCodes                INTEGER ::= 10
maxNrOfDLTSs                INTEGER ::= 15
maxNrOfDLCodes              INTEGER ::= 8
maxNrOfErrors               INTEGER ::= 256
maxNrOfTFs                  INTEGER ::= 32
maxNrOfTFCs                 INTEGER ::= 1024
maxNrOfRFLs                 INTEGER ::= 16
maxNrOfRFLSets              INTEGER ::= maxNrOfRFLs
maxNrOfDPCHs                INTEGER ::= 240
maxNrOfSCCPCHs              INTEGER ::= 8
maxNrOfCPCHs                INTEGER ::= 10 -- temporary value
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 ::= 64
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 ::= 3264
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
```

<Editor's note: The rest of the ASN.1 module is skipped.>

<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.423	CR 163r1	Current Version: 3.2.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: RAN#9 <small>list expected approval meeting # here ↑</small>	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: **R-WG3** **Date:** _____

Subject: **Clarification to the RL Failure procedure**

Work item: _____

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: The description of the RL Failure procedure does not clarify how the procedure is used to notify permanent failures of the RL, and how the retention priority can be used. Clarifications are added.

Clauses affected: **8.3.9.2**

Other specs affected:	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
------------------------------	--	--

Other comments: _____

8.3.9.2 Successful Operation

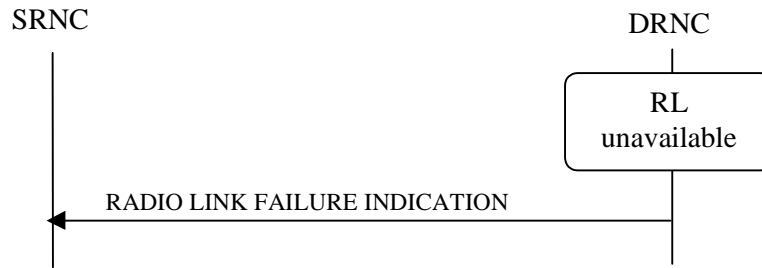


Figure 1: RL Failure procedure, Successful Operation

When DRNC detects that a one or more Radio Links or Radio Link Sets are no longer available, it shall send the RL FAILURE INDICATION message to the SRNC. The message indicates the failed Radio Links or Radio Link Sets with the most appropriate cause values defined in the *Cause* IE. If the failure concerns one or more individual Radio Links the DRNS shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the DRNS shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

When the RL Failure procedure is used to notify loss of UL synchronisation, the message shall be sent when indicated by the UL sync detection algorithm defined in ref. [10] and [22], and with the cause value 'Synchronisation Failure'.

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links or Radio Link Sets are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the DRNS shall not remove the Radio Link from the UE context, or the UE context itself. When applicable, the allocation retention priorities associated to the transport channels shall be used by the DRNS to prioritise which Radio Links to indicate as unavailable to the SRNC.

Typical cause values are:

Radio Network Layer Causes:

- Synchronisation Failure.

Miscellaneous Causes:

- Control Processing Overload;
- HW Failure;
- O&M Intervention.

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423 CR 164r2

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** 5/7/2000

Subject: Renaming UL interference

Work item:

Category: F Correction **Release:** Phase 2
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release Release 96
 B Addition of feature Release 97
 C Functional modification of feature Release 98
 D Editorial modification Release 99
 Release 00

Reason for change: Rev 2. removes 2nd sentence & 'time slot[TDD]' in 9.2.2.x and changes 'downlink' to 'uplink', 'Node B' to 'DRNC' in 9.2.3.x
 Rev 1. Modifies RSSI -> ISCP in TDD, adds comment in ASN.1 and updates on official version.
 The meaning of UL interference in RADIO LINK SETUP/ADDITION RESPONSE/FAILURE messages and RSSI is same. And, because RSSI(not UL interference) is defined in 25.215 & in 25.225, this document propose to replace UL Interference Level IE in RADIO LINK SETUP/ADDITION RESPONSE/FAILURE messages with RSSI IE. Appropriate modifications are needed in NBAP also.

Clauses affected: 9.1.4.1, 9.1.4.2, 9.1.5.1, 9.1.7.1, 9.1.7.2, 9.1.8.1, 9.2.1.68, 9.2.2.x, 9.2.3.x, 9.3.3, 9.3.4

Other specs affected: Other 3G core specifications → List of CRs:
 Other GSM core specifications → List of CRs:
 MS test specifications → List of CRs:
 BSS test specifications → List of CRs:
 O&M specifications → List of CRs:

Other comments:

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1..<maxno ofRLs>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference LevelRSSI	M		9.2.1.682.x		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $T_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_REP	M		9.2.2.4		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1.. <maxnoofDLCodes>			–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	C-		9.2.2.7		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
	NotFirstRL					
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included	–	
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>SSDT Support Indicator	M		9.2.2.43		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0..1			YES	ignore
>>DSCH Information		1..<Maxno ofDSCHs>			–	
>>>DSCH ID	M				–	
>>>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDUL ength>			–	
>>>>>MAC-c/sh SDU Length	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>PDSCH code mapping	M			PDSCH code mapping to be used	–	
>Neighbouring Cell Information		0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				to Nu in ref. [6]		
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7			
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45			
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>Per TDD Cell Information		<i>0..<maxno ofTDDneigh hbours></i>				
>>>C-Id	M		9.2.1.6			
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
NotFirstRL	The IE is present only if the RL is not the first RL in the RL Information
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell.
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoof ULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>> UL Interference Level UL Timeslot ISCP	M		9.2.1.68 9.2.1.63.x		–	
>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		–	
>UL CCTrCH Information		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxno of CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<Maxno of DPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DCH Information		1..<maxno		Only one	GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Response		<i>ofDCHs></i>		DCH per set of co-ordinated DCHs shall be included.		
>>DCH ID	M		9.2.1.16		–	
>>Binding ID	M		9.2.1.3		–	
>>Transport Layer Address	M		9.2.1.62		–	
>DSCH Information Response		<i>0 .. <Maxnoof DSCHs></i>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		<i>1..16</i>		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			For DSCH	–	
>>>MAC-c/sh SDU Length		<i>1..<MaxNb MAC-c/shSDUL ength></i>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>USCH Information Response		<i>0 .. <Maxnoof USCHs></i>			GLOBAL	ignore
>>USCH ID	M				–	
>>Binding ID	M				–	
>>Transport Layer Address	M				–	
>>Transport Format Management	M				–	
>Neighbouring Cell Information	O	<i>0..<maxno ofneighboringRNCs ></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		–	
>>Per FDD Cell Information		<i>0..<maxno ofFDDneighbours></i>				
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Primary CPICH	O		9.2.1.44		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Power						
>>>Tx Diversity Indicator	M		9.2.2.50			
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxno ofTDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	M		Uplink SIR 9.2.1.69		–	
Downlink SIR Target	M		Uplink SIR 9.2.1.69		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDPCHs	Maximum number of DPCHs for one CCTrCH.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
D-RNTI	O		9.2.1.24		YES	ignore
CN PS Domain Identifier	O		9.2.1.12		YES	ignore
CN CS Domain Identifier	O		9.2.1.11		YES	ignore
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxno ofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>Successful RL Information Response		0..<maxno ofRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference LevelRSSI	M		9.2.1.682.x		–	
>>>DL Code Information		1..<maxno ofDL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>Diversity Indication	M		9.2.2.7		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	–	
>>>>Non Combining First RL					YES	ignore
>>>>>DCH Information Response		0..<maxno ofDCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				-	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>DSCH Information Response		0..<maxno ofDSCHs>			GLOBAL	ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>DSCH ID	M				–	
>>>>Binding ID	M				–	
>>>>Transport Layer Address	M				–	
>>>Neighbouring Cell Information	O	0..<maxnoof neighbourin gRNCs>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	
>>>>Per FDD Cell Information		0..<maxno ofFDDneig hbours>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>>>STTD Support Indicator	O		9.2.2.45		–	
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>>>Per TDD Cell Information		0..<maxno ofTDDneig hbours>			–	
>>>>>C-Id	M		9.2.1.6		–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Uplink SIR Target	O		Uplink SIR 9.2.1.69		YES	ignore
Downlink SIR Target	O		Uplink SIR 9.2.1.69		YES	Ignore

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell
MaxnoofTDDneighbours	Maximum number of neighbouring TDD cell for one cell

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>RL ID	M		9.2.1.49		–	
>RL Set ID	M		9.2.2.35		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference Level/RSSI	M		9.2.1.68/2.x		–	
>Secondary CCPCH Info		0..1			–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to: $\tau_{S-CCPCH,k}$, see ref. [8]	–	
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.63	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.38		–	
>>TFCI presence	C - SlotFormat		9.2.1.55		–	
>>Multiplexing Position	M		9.2.2.26		–	
>>STTD Indicator	M		9.2.2.44		–	
>>FACH/PCH Information		1 .. <maxFACHcount+1>			–	
>>>TFS			9.2.1.64	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	–	
>>Scheduling Information		1			–	
>>>IB_SG_EP	M		9.2.2.21		–	
>>>Segment Information		1.. <maxIBSEG>			–	
>>>>IB_SG_POS	M		9.2.2.20		–	
>DL Code Information		1..<maxnoof DLCodes>			GLOBAL	ignore
>>DL Scrambling Code	M		9.2.2.8		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Information Response	O				–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL-Id	-	
>>Non combining					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	-	
>>>>DCH ID	M		9.2.1.16		-	
>>>>Binding ID	M		9.2.1.3		-	
>>>>Transport Layer Address	M		9.2.1.62		-	
>SSDT Support Indicator	M		9.2.2.43		-	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		-	
>Closed loop timing adjustment mode	O				-	
>Maximum Allowed UL Tx Power	M		9.2.1.35		-	
>Neighbouring Cell Information		0..<maxnoof neighbouringRNCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		-	
>>CN PS Domain Identifier	O		9.2.1.12		-	
>>CN CS Domain Identifier	O		9.2.1.11		-	
>>Per FDD Cell Information		0..<maxnoof FDDneighbours>			-	
>>>C-Id	M		9.2.1.6		-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	-	
>>>Frame Offset	O		9.2.1.30		-	
>>>Primary Scrambling Code	M		9.2.1.45		-	
>>>Primary CPICH Power	O		9.2.1.44		-	
>>>Cell Individual Offset	O		9.2.1.7		-	
>>>Tx Diversity Indicator	M		9.2.2.50		-	
>>>STTD Support Indicator	O		9.2.2.45		-	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		-	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		-	
>>Per TDD Cell Information		0..<maxnoof TDDneighbours>			-	
>>>C-Id	M		9.2.1.6		-	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref.	-	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				[7]		
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxFACHCount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxIBSEG	Maximum number of segments for one Information Block

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
RL Information Response		1			YES	ignore
>RL ID	M		9.2.1.49		–	
>SAI	M		9.2.1.52		–	
>Cell GAI	O				–	
>UTRAN Access Point Position	O				–	
>UL Interference per Time Slot		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link	–	
>>Time Slot	M		9.2.1.56		–	
>> UL Interference Level >>UL Timeslot ISCP	M		9.2.1.683.x		–	
>UL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>UL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>DL CCTrCH Information		0..<maxnoof CCTrCHs>		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		–	
>>DL DPCH Information		1..<maxnoofDPCHs>			EACH	ignore
>>>DPCH ID	M		9.2.3.3		–	
>>>TDD Channelisation Code	M		9.2.3.8		–	
>>>Burst Type	M		9.2.3.1		–	
>>>Midamble Shift	M		9.2.3.4		–	
>>>Time Slot	M		9.2.1.56		–	
>>>TDD Physical Channel Offset	M		9.2.3.9		–	
>>>Repetition Period	M		9.2.3.7		–	
>>>Repetition Length	M		9.2.3.6		–	
>>>TFCI Presence	M		9.2.1.55		–	
>Diversity Indication	M		9.2.2.7		YES	ignore
>CHOICE <i>diversity indication</i>						
>> <i>Combining</i>					YES	ignore
>>>RL ID	M		9.2.1.49	Reference RL	–	
>> <i>Non combining</i>					YES	ignore
>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
				be included.		
>>>>DCH ID	M		9.2.1.16		–	
>>>>Binding ID	M		9.2.1.3		–	
>>>>Transport Layer Address	M		9.2.1.62		–	
>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>DSCH Information Response		0.. <Maxnoof DSCHs>			GLOBAL	ignore
>>DSCH ID	M				–	
>>Priority Indicator		1..16		Provide Information for each priority class used	–	
>>>Scheduling Priority Indicator	M			DSCH priority indicator	–	
>>>MAC-c/sh SDU Length		1..<MaxNb MAC-c/shSDULen gth>			–	
>>>>MAC-c/sh SDU Length	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>USCH Information Response		0.. <Maxnoof USCHs>			GLOBAL	ignore
>>USCH ID	M				–	
>>CHOICE Diversity Indication					–	
>>>Non combining					–	
>>>>BindingID	M				–	
>>>>Transport Layer Address	M				–	
>Neighbouring Cell Information		0..<maxnoofn eighbouringR NCs>			EACH	ignore
>>RNC-Id	M		9.2.1.50		–	
>>CN PS Domain Identifier	O		9.2.1.12		–	
>>CN CS Domain Identifier	O		9.2.1.11		–	
>>Per FDD Cell Information		0..<maxnoof FDDneighbo urs>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]	–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Frame Offset	O		9.2.1.30		–	
>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>Primary CPICH Power	O		9.2.1.44		–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>Tx Diversity Indicator	M		9.2.2.50		–	
>>>STTD Support Indicator	O		9.2.2.45		–	
>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2		–	
>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3		–	
>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbours></i>			–	
>>>C-Id	M		9.2.1.6		–	
>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>Frame Offset	O		9.2.1.30		–	
>>>Cell Parameter ID	M		9.2.1.8		–	
>>>Sync Case	M		9.2.1.54		–	
>>>Time Slot	C-Case1		9.2.1.56		–	
>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>Block STTD Indicator	M				–	
>>>Cell Individual Offset	O		9.2.1.7		–	
>>>DPCH Constant Value	O		9.2.1.23		–	
>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1
Case2	This IE is present only if Sync Case = Case2.

Range Bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxNbMAC-c/shSDULength	Maximum number of different MAC-c/sh SDU lengths
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information
MaxnoOfDPCHs	Maximum number of DPCH in one CCTrCH
MaxnoofCCTrCHs	number of CCTrCH for one UE.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		–	
CHOICE <i>cause level</i>						
>General					Yes	ignore
>>Cause	M					
>RL specific					Yes	ignore
>>Unsuccessful RL Information Response		1..<maxnoof RLS-1>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>Cause	M		9.2.1.5		–	
>>>Successful RL Information Response		0..<maxnoof RLS-2>			EACH	ignore
>>>RL ID	M		9.2.1.49		–	
>>>RL Set ID	M		9.2.2.35		–	
>>>SAI	M		9.2.1.52		–	
>>>UL Interference Level/RSSI	M		9.2.4.682.x		–	
>>>DL Code Information		1..<maxnoof DL Codes>			GLOBAL	ignore
>>>>DL Scrambling Code	M		9.2.2.8		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>Diversity Indication	M		9.2.2.7		YES	ignore
>>>CHOICE <i>diversity indication</i>						
>>>>Combining					YES	ignore
>>>>>RL ID	M		9.2.1.49	Reference RL-Id	–	
>>>>Non combining					YES	ignore
>>>>>DCH Information Response		1..<maxnoof DCHs>		Only one DCH per set of co-ordinated DCHs shall be included.	–	
>>>>>>DCH ID	M		9.2.1.16		–	
>>>>>>Binding ID	M		9.2.1.3		–	
>>>>>>Transport Layer Address	M		9.2.1.62		–	
>>>SSDT Support Indicator	M		9.2.2.43		–	
>>>Minimum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Maximum Uplink SIR	M		Uplink SIR 9.2.1.69		–	
>>>Closed loop timing adjustment mode	O				-	
>>>Maximum Allowed UL Tx Power	M		9.2.1.35		–	
>>>Neighbouring Cell Information		0..<maxnoof neighbouring RNCs>			EACH	ignore
>>>>RNC-Id	M		9.2.1.50		–	
>>>>CN PS Domain Identifier	O		9.2.1.12		–	
>>>>CN CS Domain Identifier	O		9.2.1.11		–	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>>Per FDD Cell Information		<i>0..<maxnoof FDDneighbors></i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nu in ref. [6]	–	
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nd in ref. [6]		
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Primary Scrambling Code	M		9.2.1.45		–	
>>>>>Primary CPICH Power	O		9.2.1.44		–	
>>>>>Cell Individual Offset	O		9.2.1.7			
>>>>>Tx Diversity Indicator	M		9.2.2.50			
>>>>>STTD Support Indicator	O		9.2.2.45			
>>>>>Closed Loop Mode1 Support Indicator	O		9.2.2.2			
>>>>>Closed Loop Mode2 Support Indicator	O		9.2.2.3			
>>>>Per TDD Cell Information		<i>0..<maxnoof TDDneighbors></i>				
>>>>>C-Id	M		9.2.1.6			
>>>>>UARFCN	M		9.2.1.66	Corresponds to Nt in ref. [7]	–	
>>>>>Frame Offset	O		9.2.1.30		–	
>>>>>Cell Parameter ID	M		9.2.1.8		–	
>>>>>Sync Case	M		9.2.1.54		–	
>>>>>Time Slot	C-Case1		9.2.1.56		–	
>>>>>SCH Time Slot	C-Case2		9.2.1.51		–	
>>>>>Block STTD Indicator	M				–	
>>>>>Cell Individual Offset	O		9.2.1.7		–	
>>>>>DPCH Constant Value	O		9.2.1.23		–	
>>>>>PCCPCH Power	O		9.2.1.43		–	
Criticality Diagnostics	O		9.2.1.13		YES	ignore

Condition	Explanation
Case1	This IE is present only if Sync Case = Case1.
Case2	This IE is present only if Sync Case = Case2.

Range bound	Explanation
MaxnoofDCHs	Maximum number of dedicated channels on one RL
MaxnoofRLs	Maximum number of radio links for one UE
MaxnoofneighbouringRNCs	Maximum number of neighbouring RNCs
MaxnoofFDDNeighbours	Maximum number of neighbouring FDD cells for one cell
MaxnoofTDDNeighbours	Maximum number of neighbouring TDD cells for one cell
MaxnoofDLCodes	Maximum number of DL code information

9.2.1.68 UL Interference Level

Void

The parameter indicates the UL Interference Level in a cell [FDD]/time slot[TDD]. The UL Interference Level is used by the UE to calculate its initial UL power for the cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Interference Level			ENUMERATED ED (-128..-60)	Unit: dBm, Step size=0.1 dB

9.2.2.x RSSI

The parameter indicates the RSSI in a cell.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>RSSI</u>			<u>INTEGER(0..621)</u>	<u>According to mapping in [11].</u>

9.2.3.x UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a **up**link timeslot at the **DRNS**, see ref. [14].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>UL Timeslot ISCP</u>			INTEGER (0..81)	<u>According to mapping in [14].</u>

9.3.3 PDU Definitions

```
-- *****
--
-- PDU definitions for RNSAP.
--
-- *****

RNSAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AllocationRetentionPriority,
    AllowedQueuingTime,
    BLER,
    Block-STTD-Indicator,
    BindingID,
    BurstType,
    C-ID,
    C-RNTI,
    CCTrCH-ID,
    CellIndividualOffset,
    CFN,
    ClosedLoopMode1-SupportIndicator,
    ClosedLoopMode2-SupportIndicator,
    Closedlooptimingadjustmentmode,
    CN-CS-DomainIdentifier,
    CN-PS-DomainIdentifier,
    Cause,
    CellParameterID,
    ChipOffset,
    CriticalityDiagnostics,
    D-FieldLength,
    D-RNTI,
    D-RNTI-ReleaseIndication,
    DCH-ID,
    DL-DPCH-SlotFormat,
    DL-SIRTarget,
    DL-Power,
    DL-ScramblingCode,
```

DPCHConstantValue,
DPCH-ID,
DRACControl,
DRXCycleLengthCoefficient,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DiversityControlField,
DiversityMode,
DSCH-ID,
FACH-InitialWindowSize,
SchedulingPriorityIndicator,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
GA-AccessPointPosition,
GA-Cell,
IB-SG-POS,
IB-SG-REP,
IMSI,
ISCP,
L3-Information,
LimitedPowerIncrease,
MAC-c-sh-SDU-Length,
MaximumAllowedULTxPower,
MaxNrOfUL-DPCHs,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinUL-ChannelisationCodeLength,
MultipleURAsIndicator,
MultiplexingPosition,
NrOfDLchannelisationcodes,
PDSCHCodeMapping,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PowerAdjustmentType,
PowerOffset,
PRACH-Midamble,
PRACH-MinimumSpreadingFactor,
PreambleSignatures,
PrimaryCCPCH-RSCP,
PrimaryCPICH-EcNo,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
PunctureLimit,
QE-Selector,
RACH-SubChannelNumbers,

RANAP-RelocationInformation,
RB-Identity,
RL-ID,
RL-Set-ID,
RNC-ID,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
RSSI,
S-FieldLength,
S-RNTI,
SCH-TimeSlot,
SAI,
SN,
SSDT-CellID,
SSDT-CellID-Length,
SSDT-Indication,
SSDT-SupportIndicator,
STTD-Indicator,
STTD-SupportIndicator,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
SyncCase,
TDD-ChannelisationCode,
TDD-PhysicalChannelOffset,
TDD-TPC-DownlinkStepSize,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TimeSlot,
ToAWE,
ToAWS,
TransmitDiversityIndicator,
TransportBearerID,
TransportBearerRequestIndicator,
TFCS,
Transmission-Gap-Pattern-Sequence-Information,
Transmission-Gap-Pattern-Sequence-Information-Response,
TransportFormatManagement,
TransportFormatSet,
TransportLayerAddress,
TrCH-SrcStatisticsDescr,
TxDiversityIndicator,
UARFCN,
UC-ID,
UL-DPCCH-SlotFormat,
UL-InterferenceLevel,
UL-SIR,

```
UL-FP-Mode,  
UL-ScramblingCode,  
UL-TimeslotISCP,  
URA-ID,  
USCH-ID  
FROM RNSAP-IEs
```

```
•  
•  
•  
•  
•  
•
```

```
<Parts of the ASN.1 module is omitted>
```

```
-- *****  
--  
-- RADIO LINK SETUP RESPONSE FDD  
--  
-- *****
```

```
RadioLinkSetupResponseFDD ::= SEQUENCE {  
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},  
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL,  
    ...  
}
```

```
RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {  
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |  
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |  
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |  
    { ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } |  
    { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |  
    { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |  
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },  
    ...  
}
```

```
RL-InformationResponseList-RL-SetupRspFDD ::= RL-IE-ContainerList1 { {RL-InformationResponseItemIEs-RL-SetupRspFDD} }
```

```
RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {  
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD  
        CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory },  
    ...  
}
```

```
RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {  
    rL-ID          RL-ID,  
    rL-Set-ID     RL-Set-ID,  
    sAI           SAI,
```

```

gA-Cell                GA-Cell    OPTIONAL,
gA-AccessPointPosition GA-AccessPointPosition    OPTIONAL,
ul-InterferenceLevel UL-InterferenceLevel,
rSSI                RSSI,
secondary-CCPCH-Info   Secondary-CCPCH-Info-RL-SetupRspFDD    OPTIONAL,
dl-CodeInformation     DL-CodeInformationList-RL-SetupRspFDD,
diversityIndication    DiversityIndication-RL-SetupRspFDD,
-- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
-- the tabular message format in subclause 9.1.
sSDT-SupportIndicator  SSDT-SupportIndicator,
maxUL-SIR              UL-SIR,
minUL-SIR              UL-SIR,
closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode    OPTIONAL,
maximumAllowedULTxPower MaximumAllowedULTxPower,
dSCHInformationResponse DSCH-InformationResponse-RL-SetupRspFDD    OPTIONAL,
neighbouring-CellInformation Neighbouring-CellInformationList-RL-SetupRsp    OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD ::= SEQUENCE {
fDD-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
dl-ScramblingCode       DL-ScramblingCode,
fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
dl-TFCS                 TFCS,
secondaryCCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
tFCI-Presence           TFCI-Presence    OPTIONAL,
-- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
multiplexingPosition    MultiplexingPosition,
sTTD-Indicator          STTD-Indicator,
fACH-PCH-InformationList FACH-PCH-InformationList-RL-SetupRspFDD,
schedulingInformation    SchedulingInformation-RL-SetupRspFDD,
iE-Extensions          ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

Secondary-CCPCH-Info-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-PCH-InformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-SetupRspFDD

FACH-PCH-InformationItem-RL-SetupRspFDD ::= SEQUENCE {
transportFormatSet      TransportFormatSet,
iE-Extensions          ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
...
}

```

```

FACH-PCH-InformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-SetupRspFDD ::= SEQUENCE {
    iB-SG-Rep                IB-SG-REP,
    segmentInformationList   SegmentInformationList-RL-SetupRspFDD,
    iE-Extensions            ProtocolExtensionContainer { { SchedulingInformation-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-SetupRspFDD

SegmentInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    iB-SG-POS                IB-SG-POS,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupRspFDD

DL-CodeInformationItem-RL-SetupRspFDD ::= SEQUENCE {
    dl-ScramblingCode        DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response Transmission-Gap-Pattern-Sequence-Information-Response OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupRspFDD }}

DiversityIndicationIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-SetupRspFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-SetupRspFDD ::= CHOICE {
    combining                Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL   NonCombiningOrFirstRL-RL-SetupRspFDD,
}

```

```

    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE CombiningItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD    CRITICALITY ignore    TYPE NonCombiningOrFirstRLItem-RL-SetupRspFDD PRESENCE mandatory },
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-SetupRspFDD    DCH-InformationResponseList-RL-SetupRspFDD    OPTIONAL,
    iE-Extensions                            ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspFDD

DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions        ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}

DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseItem-RL-SetupRspFDD  CRITICALITY ignore  TYPE  DSCH-InformationResponseItem-RL-SetupRspFDD PRESENCE  mandatory
},
  ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dschInformation      DSCHInformation-RL-SetupRspFDD,
  pdSCHCodeMapping    PDSCHCodeMapping,
  iE-Extensions       ProtocolExtensionContainer { { DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
  ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCHInformation-RL-SetupRspFDD ::= SEQUENCE {
  dsch-ID              DSCH-ID,
  priorityIndicator    PriorityIndicator-RL-SetupRspFDD,
  bindingID            BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions       ProtocolExtensionContainer { {DSCHInformation-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

DSCHInformation-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

PriorityIndicator-RL-SetupRspFDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspFDD

PriorityIndicatorItem-RL-SetupRspFDD ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  mac-c-sh-SDU-Lengths      MAC-c-sh-SDU-LengthList-RL-SetupRspFDD,
  iE-Extensions             ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

PriorityIndicatorItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspFDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

Neighbouring-CellInformationList-RL-SetupRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-SetupRsp }}

Neighbouring-CellInformationItemIE-RL-SetupRsp RNSAP-PROTOCOL-IES ::= {

```



```

    { ID id-Neighbouring-CellInformationItem-RL-SetupRsp CRITICALITY ignore TYPE Neighbouring-CellInformationItem-RL-SetupRsp PRESENCE
      mandatory },
    ...
  }

Neighbouring-CellInformationItem-RL-SetupRsp ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-SetupRsp OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-SetupRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-FDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-SetupRsp

Per-FDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNu UARFCN,
  uARFCNforNd UARFCN,
  frameOffset FrameOffset OPTIONAL,
  primaryScramblingCode PrimaryScramblingCode,
  primaryCPICH-Power PrimaryCPICH-Power OPTIONAL,
  cellIndividualOffset CellIndividualOffset OPTIONAL,
  txDiversityIndicator TxDiversityIndicator,
  sTTD-SupportIndicator STTD-SupportIndicator OPTIONAL,
  closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
  closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
  ...
}

Per-FDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-TDD-Cell-InformationList-RL-SetupRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupRsp

Per-TDD-Cell-InformationItem-RL-SetupRsp ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNt UARFCN,
  frameOffset FrameOffset OPTIONAL,
  cellParameterID CellParameterID,
  syncCase SyncCase,
  timeSlot TimeSlot OPTIONAL
  -- This IE is present only if Sync Case = Case1 -- ,
}

```

```

sCH-TimeSlot                SCH-TimeSlot                OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator        Block-STTD-Indicator,
cellIndividualOffset        CellIndividualOffset        OPTIONAL,
dPCHConstantValue          DPCHConstantValue          OPTIONAL,
pCCPCH-Power               PCCPCH-Power               OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs} } OPTIONAL,
...
}

Per-TDD-Cell-InformationItem-RL-SetupRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

-- *****
--
-- RADIO LINK SETUP RESPONSE TDD
--
-- *****

RadioLinkSetupResponseTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkSetupResponseTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer  {{RadioLinkSetupResponseTDD-Extensions}}          OPTIONAL,
    ...
}

RadioLinkSetupResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI                CRITICALITY ignore TYPE D-RNTI                PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget           CRITICALITY ignore TYPE UL-SIR           PRESENCE mandatory } |
    { ID id-DL-SIRTarget           CRITICALITY ignore TYPE DL-SIRTarget           PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell        OPTIONAL,
    gA-AccessPointPosition GA-AccessPointPosition OPTIONAL,
    ul-InterferencePerTimeslot UL-InterferenceList-RL-SetupRspTDD,
    maxUL-SIR            UL-SIR,
    minUL-SIR            UL-SIR,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD        OPTIONAL,

```

```

dl-CCTrCHInformation          DL-CCTrCHInformationList-SetupRspTDD    OPTIONAL,
dch-InformationResponse       DCH-InformationResponseList-RL-SetupRspTDD,
dsch-InformationResponse      DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
usch-InformationResponse      USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupRsp OPTIONAL,
-- note: refer to "Neighbouring-CellInformationList-RL-SetupRsp" in the "RL Seup Response FDD
iE-Extensions                 ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
timeslot                      Timeslot,
ul-InterferenceLevel      UL-InterferenceLevel,
iSCP                       UL-TimeslotISCP,
iE-Extensions                 ProtocolExtensionContainer { { UL-InterferenceItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD    CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD    PRESENCE mandatory },
...
}

UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
cCTrCH-ID                    CCTrCH-ID,
ul-DPCH-Information           UL-DPCH-InformationList-RL-SetupRspTDD,
iE-Extensions                 ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-SetupRspTDD} }

UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE UL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory},
    ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tDD-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}

DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD  PRESENCE mandatory },
    ...
}

DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD

DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    dl-DPCH-Information      DL-DPCH-InformationList-RL-SetupRspTDD,
    iE-Extensions            ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-SetupRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-SetupRspTDD} }

DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD      CRITICALITY ignore  TYPE DL-DPCH-InformationItem-RL-SetupRspTDD  PRESENCE mandatory},
    ...
}

DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,

```

```

tDD-ChannelisationCode      TDD-ChannelisationCode,
burstType                   BurstType,
midambleShift               MidambleShift,
timeSlot                    TimeSlot,
tDD-PhysicalChannelOffset   TDD-PhysicalChannelOffset,
repetitionPeriod            RepetitionPeriod,
repetitionLength            RepetitionLength,
tFCI-Presence               TFCI-Presence,
iE-Extensions                ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}

DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DCH-InformationResponseListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DCH-InformationResponseListIE-RL-SetupRspTDD PRESENCE mandatory
},
...
}

DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupRspTDD

DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
dCH-ID                      DCH-ID,
bindingID                   BindingID,
transportLayerAddress        TransportLayerAddress,
iE-Extensions                ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{DSCH-InformationList-RL-SetupRspTDD}}

DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DSCH-InformationListIEs-RL-SetupRspTDD CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
...
}

DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD

DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
dsch-ID                     DSCH-ID,
priorityIndicator            PriorityIndicator-RL-SetupRspTDD,
bindingID                   BindingID,

```

```

transportLayerAddress TransportLayerAddress,
transportFormatManagement TransportFormatManagement,
iE-Extensions ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

PriorityIndicator-RL-SetupRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-SetupRspTDD

PriorityIndicatorItem-RL-SetupRspTDD ::= SEQUENCE {
schedulingPriorityIndicator SchedulingPriorityIndicator,
mac-c-sh-SDU-Lengths MAC-c-sh-SDU-LengthList-RL-SetupRspTDD,
iE-Extensions ProtocolExtensionContainer { {PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

PriorityIndicatorItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

MAC-c-sh-SDU-LengthList-RL-SetupRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Container {{USCH-InformationList-RL-SetupRspTDD}}

USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-USCH-InformationListIEs-RL-SetupRspTDD CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory },
...
}

USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD

USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
usch-ID USCH-ID,
bindingID BindingID,
transportLayerAddress TransportLayerAddress,
transportFormatManagement TransportFormatManagement,
iE-Extensions ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
...
}

USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

```

```

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

RadioLinkSetupFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupFailureFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}      OPTIONAL,
    ...
}

RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-D-RNTI          CRITICALITY ignore TYPE D-RNTI          PRESENCE optional } |
    { ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional } |
    { ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional } |
    { ID id-CauseLevel-RL-SetupFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD PRESENCE mandatory } |
    { ID id-UL-SIRTarget     CRITICALITY ignore TYPE UL-SIR          PRESENCE optional } |
    { ID id-DL-SIRTarget     CRITICALITY ignore TYPE DL-SIRTarget    PRESENCE optional } |
    { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause      RLSpecificCauseList-RL-SetupFailureFDD,
    ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-SetupFailureFDD CRITICALITY ignore TYPE GeneralCauseItem-RL-SetupFailureFDD PRESENCE
mandatory },
    ...
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
    cause                 Cause,
    iE-Extensions         ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-RLSpecificCauseItem-RL-SetupFailureFDD      CRITICALITY ignore      TYPE      RLSpecificCauseItem-RL-SetupFailureFDD
      PRESENCE mandatory },
    ...
}

RLSpecificCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-SetupFailureFDD      UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD,
  successful-RL-InformationRespList-RL-SetupFailureFDD      SuccessfulRL-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList1 { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore      TYPE UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory },
  ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  cause      Cause,
  iE-Extensions      ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= RL-IE-ContainerList0-1 { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
  { ID id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD      CRITICALITY ignore      TYPE SuccessfulRL-InformationResponse-RL-SetupFailureFDD
    PRESENCE mandatory },
  ...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  rL-Set-ID      RL-Set-ID,
  sAI      SAI,
  ul-InterferenceLevel      UL-InterferenceLevel,
  rSSI      RSSI,
  dl-CodeInformation      DL-CodeInformationList-RL-SetupFailureFDD,
  diversityIndication      DiversityIndication-RL-SetupFailureFDD,

```



```

-- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
-- the tabular message format in subclause 9.1.
sSDT-SupportIndicator          SSDT-SupportIndicator,
maxUL-SIR                      UL-SIR,
minUL-SIR                      UL-SIR,
closedloopTimingadjustmentmode ClosedloopTimingadjustmentmode OPTIONAL,
maximumAllowedULTxPower       MaximumAllowedULTxPower,
dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL,
neighbouring-CellInformationList Neighbouring-CellInformationList-RL-SetupFailureFDD OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
...
}

SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-SetupFailureFDD }}

DL-CodeInformationListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DL-CodeInformationListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-SetupFailureFDD PRESENCE mandatory
},
  ...
}

DL-CodeInformationListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-SetupFailureFDD

DL-CodeInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  iE-Extensions              ProtocolExtensionContainer { {DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DiversityIndication-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-SetupFailureFDD }}

DiversityIndicationIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DiversityIndicationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE DiversityIndicationItem-RL-SetupFailureFDD PRESENCE mandatory },
  ...
}

DiversityIndicationItem-RL-SetupFailureFDD ::= CHOICE {
  combining                  Combining-RL-SetupFailureFDD,
  nonCombiningOrFirstRL     NonCombiningOrFirstRL-RL-SetupFailureFDD,
  ...
}

```

```

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE CombiningItem-RL-SetupFailureFDD  PRESENCE mandatory },
  ...
}

CombiningItem-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions  ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-SetupFailureFDD }}

NonCombiningOrFirstRLIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE NonCombiningOrFirstRLItem-RL-SetupFailureFDD  PRESENCE
mandatory },
  ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-InformationResponse-RL-SetupFailureFDD  DCH-InformationResponseList-RL-SetupFailureFDD  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-SetupFailureFDD

DCH-InformationResponseItem-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-ID          DCH-ID,
  bindingID       BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions  ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}

```

```

DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DSCH-InformationResponseListIE-RL-SetupFailureFDD PRESENCE
  mandatory },
  ...
}

DSCH-InformationResponseListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupFailureFDD

DSCHInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  dsch-ID DSCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DSCHInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Neighbouring-CellInformationList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-
CellInformationItemIE-RL-SetupFailureFDD }}

Neighbouring-CellInformationItemIE-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Neighbouring-CellInformationItem-RL-SetupFailureFDD
  PRESENCE mandatory },
  ...
}

Neighbouring-CellInformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  rNC-ID RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Per-FDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-
SetupFailureFDD

Per-FDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
  c-ID C-ID,
  uARFCNforNu UARFCN,
  uARFCNforNd UARFCN,
  frameOffset FrameOffset OPTIONAL,
}

```

```

primaryScramblingCode      PrimaryScramblingCode,
primaryCPICH-Power         PrimaryCPICH-Power   OPTIONAL,
cellIndividualOffset       CellIndividualOffset  OPTIONAL,
txDiversityIndicator       TxDiversityIndicator,
sTTD-SupportIndicator      STTD-SupportIndicator  OPTIONAL,
closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator  OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator  OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
...
}

Per-FDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Per-TDD-Cell-InformationList-RL-SetupFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-SetupFailureFDD

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD ::= SEQUENCE {
c-ID                       C-ID,
uARFCNforNt                UARFCN,
frameOffset                 FrameOffset      OPTIONAL,
cellParameterID            CellParameterID,
syncCase                    SyncCase,
timeSlot                    TimeSlot          OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot                SCH-TimeSlot      OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator        Block-STTD-Indicator,
cellIndividualOffset        CellIndividualOffset  OPTIONAL,
dPCHConstantValue          DPCHConstantValue  OPTIONAL,
pCCPCH-Power                PCCPCH-Power,
iE-Extensions              ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
...
}

Per-TDD-Cell-InformationItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

```

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}    OPTIONAL,
    ...
}

RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD    CRITICALITY ignore    TYPE RL-InformationResponseList-RL-AdditionRspFDD    PRESENCE mandatory
    } |
    { ID id-CriticalityDiagnostics          CRITICALITY ignore    TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

RL-InformationResponseList-RL-AdditionRspFDD ::= RL-IE-ContainerList1-1 { {RL-InformationResponseItemIEs-RL-AdditionRspFDD} }

RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD    CRITICALITY ignore    TYPE RL-InformationResponseItem-RL-AdditionRspFDD    PRESENCE
    mandatory },
    ...
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID            RL-Set-ID,
    sAI                  SAI,
    gA-Cell              GA-Cell    OPTIONAL,
    gA-AccessPointPosition    GA-AccessPointPosition    OPTIONAL,
    ul-InterferenceLevel UL-InterferenceLevel,
    rSSI RSSI,
    secondary-CCPCH-Info    Secondary-CCPCH-Info-RL-AdditionRspFDD    OPTIONAL,
    dl-CodeInformation      DL-CodeInformationList-RL-AdditionRspFDD,
    diversityIndication     DiversityIndication-RL-AdditionRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator   SSdT-SupportIndicator,
    minUL-SIR              UL-SIR,
    maxUL-SIR              UL-SIR,
    closedloopTimingadjustmentmode    ClosedloopTimingadjustmentmode    OPTIONAL,
    maximumAllowedULTxPower    MaximumAllowedULTxPower,
    neighbouring-CellInformationList    Neighbouring-CellInformationList-RL-AdditionRsp    OPTIONAL,
    IE-Extensions          ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD ::= SEQUENCE {
    fdd-s-ccpch-offset          FDD-S-CCPCH-Offset,
    dl-scramblingCode          DL-ScramblingCode,
    fdd-dl-channelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    dl-tfcs                    TFCS,
    secondaryCCPCH-SlotFormat  SecondaryCCPCH-SlotFormat,
    tFCI-Presence              TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
    multiplexingPosition       MultiplexingPosition,
    sTTD-Indicator             STTD-Indicator,
    fACH-PCH-InformationList   FACH-PCH-InformationList-RL-AdditionRspFDD,
    schedulingInformation      SchedulingInformation-RL-AdditionRspFDD,
    iE-Extensions              ProtocolExtensionContainer { { Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

Secondary-CCPCH-Info-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-PCH-InformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem-RL-AdditionRspFDD

FACH-PCH-InformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    transportFormatSet        TransportFormatSet,
    iE-Extensions              ProtocolExtensionContainer { { FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

FACH-PCH-InformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SchedulingInformation-RL-AdditionRspFDD ::= SEQUENCE {
    iB-SG-Rep                 IB-SG-REP,
    segmentInformationList     SegmentInformationList-RL-AdditionRspFDD,
    iE-Extensions              ProtocolExtensionContainer { { SchedulingInformation-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SchedulingInformation-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SegmentInformationList-RL-AdditionRspFDD ::= SEQUENCE (SIZE(1..maxIBSEG)) OF SegmentInformationItem-RL-AdditionRspFDD

SegmentInformationItem-RL-AdditionRspFDD ::= SEQUENCE {

```

```

    iB-SG-POS                IB-SG-POS,
    iE-Extensions            ProtocolExtensionContainer { { SegmentInformationItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ...
}

SegmentInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}

DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionRspFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionRspFDD

DL-CodeInformationItem-RL-AdditionRspFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber    FDD-DL-ChannelisationCodeNumber,
    transmission-Gap-Pattern-Sequence-Information-Response    Transmission-Gap-Pattern-Sequence-Information-Response    OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionRspFDD }}

DiversityIndicationIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionRspFDD ::= CHOICE {
    combining                        Combining-RL-AdditionRspFDD,
    nonCombining                    NonCombining-RL-AdditionRspFDD,
    ...
}

Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}

CombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE CombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {

```

```

    rL-ID                RL-ID,
    iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspFDD ::= ProtocolIE-Container { { NonCombiningIE-RL-AdditionRspFDD } }

NonCombiningIE-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspFDD    CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionRspFDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspFDD    DCH-InformationResponseList-RL-AdditionRspFDD,
    iE-Extensions                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD

DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID              BindingID,
    transportLayerAddress  TransportLayerAddress,
    iE-Extensions          ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Neighbouring-CellInformationList-RL-AdditionRsp ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container { { Neighbouring-CellInformationItemIE-RL-AdditionRsp } }

Neighbouring-CellInformationItemIE-RL-AdditionRsp RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-CellInformationItem-RL-AdditionRsp    CRITICALITY ignore    TYPE    Neighbouring-CellInformationItem-RL-AdditionRsp    PRESENCE
    mandatory },
    ...
}

Neighbouring-CellInformationItem-RL-AdditionRsp ::= SEQUENCE {
    rNC-ID                RNC-ID,

```



```

cN-PS-DomainIdentifier          CN-PS-DomainIdentifier          OPTIONAL,
cN-CS-DomainIdentifier          CN-CS-DomainIdentifier          OPTIONAL,
per-FDD-Cell-InformationList    Per-FDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
per-TDD-Cell-InformationList    Per-TDD-Cell-InformationList-RL-AdditionRsp OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
...
}

Neighbouring-CellInformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Per-FDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionRsp

Per-FDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
c-ID                            C-ID,
uARFCNforNu                     UARFCN,
uARFCNforNd                     UARFCN,
frameOffset                     FrameOffset          OPTIONAL,
primaryScramblingCode           PrimaryScramblingCode,
primaryCPICH-Power              PrimaryCPICH-Power   OPTIONAL,
cellIndividualOffset            CellIndividualOffset OPTIONAL,
txDiversityIndicator            TxDiversityIndicator,
sTTD-SupportIndicator           STTD-SupportIndicator OPTIONAL,
closedLoopModel-SupportIndicator ClosedLoopModel-SupportIndicator OPTIONAL,
closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,
...
}

Per-FDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

Per-TDD-Cell-InformationList-RL-AdditionRsp ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionRsp

Per-TDD-Cell-InformationItem-RL-AdditionRsp ::= SEQUENCE {
c-ID                            C-ID,
uARFCNforNt                     UARFCN,
frameOffset                     FrameOffset          OPTIONAL,
cellParameterID                 CellParameterID,
syncCase                         SyncCase,
timeSlot                         TimeSlot            OPTIONAL
-- This IE is present only if Sync Case = Case1 -- ,
sCH-TimeSlot                     SCH-TimeSlot        OPTIONAL
-- This IE is present only if Sync Case = Case2 -- ,
block-STTD-Indicator             Block-STTD-Indicator,
cellIndividualOffset             CellIndividualOffset OPTIONAL,
dPCHConstantValue               DPCHConstantValue  OPTIONAL,
pCCPCH-Power                    PCCPCH-Power,
iE-Extensions                   ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs } } OPTIONAL,

```

```

}
...
}
Per-TDD-Cell-InformationItem-RL-AdditionRsp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
...
}
-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

RadioLinkAdditionResponseTDD ::= SEQUENCE {
    protocolIEs                ProtocolIE-Container        {{RadioLinkAdditionResponseTDD-IEs}},
    protocolExtensions          ProtocolExtensionContainer  {{RadioLinkAdditionResponseTDD-Extensions}}
    ...
}
OPTIONAL,

RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
      CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE mandatory } |
    { ID id-CriticalityDiagnostics
      CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    sAI                        SAI,
    gA-Cell                    GA-Cell OPTIONAL,
    gA-AccessPointPosition     GA-AccessPointPosition OPTIONAL,
    ul-InteferencePerTimeslot   UL-InterferenceList-RL-AdditionRspTDD,
    ul-CCTrCHInformation        UL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    dl-CCTrCHInformation        DL-CCTrCHInformationList-RL-AdditionRspTDD OPTIONAL,
    diversityIndication         DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    minUL-SIR                  UL-SIR,
    maxUL-SIR                  UL-SIR,
    maximumAllowedULTxPower     MaximumAllowedULTxPower,
    dSCH-InformationResponse     DSCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    uSCH-InformationResponse     USCH-InformationResponse-RL-AdditionRspTDD OPTIONAL,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionRsp OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-InterferenceItem-RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    ul-InterferenceLevel UL-InterferenceLevel,
    iSCP                  UL-TimeslotISCP,
    iE-Extensions           ProtocolExtensionContainer { { UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{UL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

UL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE UL-CCTrCHInformationListIE-RL-AdditionRspTDD    PRESENCE mandatory
    },
    ...
}

UL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-AdditionRspTDD

UL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID              CCTrCH-ID,
    ul-DPCH-Information    UL-DPCH-InformationList-RL-AdditionRspTDD,
    iE-Extensions          ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {UL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD        CRITICALITY ignore    TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD    PRESENCE mandatory
    },
    ...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dPCH-ID              DPCH-ID,
    tDD-ChannelisationCode    TDD-ChannelisationCode,
    burstType             BurstType,
    midambleShift         MidambleShift,
}

```

```

timeSlot                TimeSlot,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod        RepetitionPeriod,
repetitionLength        RepetitionLength,
tFCI-Presence           TFCI-Presence,
IE-Extensions           ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CCTrCHInformationList-RL-AdditionRspTDD ::= ProtocolIE-Container {{DL-CCTrCHInformationListIEs-RL-AdditionRspTDD}}

DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD   CRITICALITY ignore   TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD   PRESENCE mandatory
},
...
}

DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD

DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
cTrCH-ID                CTrCH-ID,
dl-DPCH-Information     DL-DPCH-InformationList-RL-AdditionRspTDD,
IE-Extensions           ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
...
}

DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationList-RL-AdditionRspTDD ::= DPCH-IE-ContainerList { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD} }

DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD   CRITICALITY ignore   TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD   PRESENCE mandatory },
...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
dPCH-ID                DPCH-ID,
tDD-ChannelisationCode  TDD-ChannelisationCode,
burstType              BurstType,
midambleShift          MidambleShift,
timeSlot               TimeSlot,
tDD-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
repetitionPeriod        RepetitionPeriod,
repetitionLength        RepetitionLength,
tFCI-Presence           TFCI-Presence,

```

```

    iE-Extensions          ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= ProtocolIE-Container {{DiversityIndicationIE-RL-AdditionRspTDD}}

DiversityIndicationIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE DiversityIndicationItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionRspTDD ::= CHOICE {
    combining          Combining-RL-AdditionRspTDD,
    nonCombining      NonCombining-RL-AdditionRspTDD,
    ...
}

Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{CombiningIE-RL-AdditionRspTDD}}

CombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE CombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID              RL-ID,
    iE-Extensions      ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

NonCombining-RL-AdditionRspTDD ::= ProtocolIE-Container {{NonCombiningIE-RL-AdditionRspTDD}}

NonCombiningIE-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-NonCombiningItem-RL-AdditionRspTDD    CRITICALITY ignore    TYPE NonCombiningItem-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

NonCombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse-RL-AdditionRspTDD      DCH-InformationResponseList-RL-AdditionRspTDD,
    iE-Extensions      ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspTDD

DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}

DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE DSCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD

DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID                DSCH-ID,
    priorityIndicator       PriorityIndicator-RL-AdditionRspTDD,
    diversityIndication     DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions          ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

PriorityIndicator-RL-AdditionRspTDD ::= SEQUENCE (SIZE(1..16)) OF PriorityIndicatorItem-RL-AdditionRspTDD

PriorityIndicatorItem-RL-AdditionRspTDD ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    mac-c-sh-SDU-Lengths       MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD,
    iE-Extensions              ProtocolExtensionContainer { {PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

PriorityIndicatorItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

MAC-c-sh-SDU-LengthList-RL-AdditionRspTDD ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length

DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID          BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions      ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs} } OPTIONAL,
    ...
}
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}

USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIE-RL-AdditionRspTDD    CRITICALITY ignore    TYPE USCH-InformationListIE-RL-AdditionRspTDD    PRESENCE mandatory },
    ...
}

USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD

USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    diversityIndication DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions      ProtocolExtensionContainer { {USCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    ...
}

USCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RadioLinkAdditionResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION FAILURE FDD
--
-- *****

RadioLinkAdditionFailureFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkAdditionFailureFDD-IEs}},
    protocolExtensions    ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
    ...
}

RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {

```

```

    { ID id-CauseLevel-RL-AdditionFailureFDD          CRITICALITY ignore          TYPE CauseLevel-RL-AdditionFailureFDD
    PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics          CRITICALITY ignore TYPE CriticalityDiagnostics          PRESENCE optional },
    ...
}

CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
    generalCause          GeneralCauseList-RL-AdditionFailureFDD,
    rLSpecificCause      RLSpecificCauseList-RL-AdditionFailureFDD,
    ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-GeneralCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore
      TYPE GeneralCauseItem-RL-AdditionFailureFDD          PRESENCE mandatory },
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    cause                Cause,
    iE-Extensions        ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY ignore          TYPE RLSpecificCauseItem-RL-
    AdditionFailureFDD          PRESENCE mandatory},
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD    SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList1-1 { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-
IEs} }

```



```

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE UnsuccessfulRL-InformationResponse-RL-
AdditionFailureFDD    PRESENCE mandatory },
    ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    cause                Cause,
    iE-Extensions       ProtocolExtensionContainer { {UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= RL-IE-ContainerList0-2 { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs} }

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD    CRITICALITY ignore  TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
    PRESENCE mandatory },
    ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    rL-Set-ID           RL-Set-ID,
    sAI                 SAI,
    ul-InterferenceLevel UL-InterferenceLevel,
    rSSI RSSI,
    dl-CodeInformation  DL-CodeInformationList-RL-AdditionFailureFDD,
    diversityIndication DiversityIndication-RL-AdditionFailureFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
    sSDT-SupportIndicator SSdT-SupportIndicator,
    minUL-SIR           UL-SIR,
    maxUL-SIR           UL-SIR,
    closedlooptimingadjustmentmode Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower MaximumAllowedULTxPower,
    neighbouring-CellInformationList Neighbouring-CellInformationList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}

```

```

DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CodeInformationListIE-RL-AdditionFailureFDD    CRITICALITY ignore TYPE DL-CodeInformationListIE-RL-AdditionFailureFDD    PRESENCE
mandatory },
    ...
}

DL-CodeInformationListIE-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF DL-CodeInformationItem-RL-AdditionFailureFDD

DL-CodeInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    iE-Extensions                    ProtocolExtensionContainer { {DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DL-CodeInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ DiversityIndicationIE-RL-AdditionFailureFDD }}

DiversityIndicationIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DiversityIndicationItem-RL-AdditionFailureFDD    CRITICALITY ignore TYPE DiversityIndicationItem-RL-AdditionFailureFDD    PRESENCE
mandatory },
    ...
}

DiversityIndicationItem-RL-AdditionFailureFDD ::= CHOICE {
    combining                Combining-RL-AdditionFailureFDD,
    nonCombining            NonCombining-RL-AdditionFailureFDD,
    ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE CombiningItem-RL-AdditionFailureFDD    PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                    RL-ID,
    iE-Extensions            ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

NonCombining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ NonCombiningIE-RL-AdditionFailureFDD }}

NonCombiningIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningItem-RL-AdditionFailureFDD   CRITICALITY ignore TYPE NonCombiningItem-RL-AdditionFailureFDD   PRESENCE mandatory },
  ...
}

NonCombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
  dCH-InformationResponse-RL-AdditionFailureFDD      DCH-InformationResponseList-RL-AdditionFailureFDD,
  iE-Extensions                                     ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
  ...
}

NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionFailureFDD

DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
  dCH-ID                DCH-ID,
  bindingID             BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions         ProtocolExtensionContainer { {DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  ...
}

Neighbouring-CellInformationList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Container {{ Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD }}

Neighbouring-CellInformationItemIE-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
  { ID id-Neighbouring-CellInformationItem-RL-AdditionFailureFDD   CRITICALITY ignore TYPE   Neighbouring-CellInformationItem-RL-AdditionFailureFDD
    PRESENCE mandatory },
  ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rNC-ID                RNC-ID,
  cN-PS-DomainIdentifier CN-PS-DomainIdentifier   OPTIONAL,
  cN-CS-DomainIdentifier CN-CS-DomainIdentifier   OPTIONAL,
  per-FDD-Cell-InformationList Per-FDD-Cell-InformationList-RL-AdditionFailureFDD OPTIONAL,
  per-TDD-Cell-InformationList Per-TDD-Cell-InformationList-RL-AdditionFailureFDD OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { {Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
  ...
}

Neighbouring-CellInformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
Per-FDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNu         UARFCN,
    uARFCNforNd         UARFCN,
    frameOffset         FrameOffset          OPTIONAL,
    primaryScramblingCode PrimaryScramblingCode,
    primaryCPICH-Power  PrimaryCPICH-Power   OPTIONAL,
    cellIndividualOffset CellIndividualOffset  OPTIONAL,
    txDiversityIndicator TxDiversityIndicator,
    sTTD-SupportIndicator STTD-SupportIndicator  OPTIONAL,
    closedLoopModel1-SupportIndicator ClosedLoopModel1-SupportIndicator  OPTIONAL,
    closedLoopMode2-SupportIndicator ClosedLoopMode2-SupportIndicator  OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

Per-FDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

Per-TDD-Cell-InformationList-RL-AdditionFailureFDD ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD ::= SEQUENCE {
    c-ID                C-ID,
    uARFCNforNt         UARFCN,
    frameOffset         FrameOffset          OPTIONAL,
    cellParameterID     CellParameterID,
    syncCase            SyncCase,
    timeSlot            TimeSlot             OPTIONAL
    -- This IE is present only if Sync Case = Case1 -- ,
    sCH-TimeSlot        SCH-TimeSlot         OPTIONAL
    -- This IE is present only if Sync Case = Case2 -- ,
    block-STTD-Indicator Block-STTD-Indicator,
    cellIndividualOffset CellIndividualOffset  OPTIONAL,
    dPCHConstantValue   DPCHConstantValue   OPTIONAL,
    pCCPCH-Power        PCCPCH-Power,
    iE-Extensions       ProtocolExtensionContainer { { Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    ...
}

Per-TDD-Cell-InformationItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

9.3.4 Information Element Definitions

```

-- *****
--
-- Information Element Definitions
--
-- *****

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- R

RAC                ::= OCTET STRING (SIZE(1))

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, .., Bit 11=Sub Channel Number 11

RANAP-RelocationInformation ::= BIT STRING

RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

RB-Identity ::= INTEGER (0..15)

RefTFCNumber ::= INTEGER (0..15)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,

```

```

    v16,
    v32,
    v64
}

RepetitionNumber ::= INTEGER (0..255)

ReportCharacteristics ::= CHOICE {
    onDemand          NULL,
    periodic          Periodic,
    eventA            EventA,
    eventB            EventB,
    eventC            EventC,
    eventD            EventD,
    eventE            EventE,
    eventF            EventF,
    ...
}

ReportPeriodicity ::= CHOICE {
    ten-msec          INTEGER (1..6000),
    -- The Report Periodicity gives the reporting periodicity in number of 10 ms periods.
    -- E.g. value 6000 means 60000ms (i.e. 1min)
    -- Unit ms, Step 10ms
    min               INTEGER (1..60)
    -- Unit min, Step 1min
}

RL-ID                ::= INTEGER (0..31)

RL-Set-ID            ::= INTEGER (0..31)

RNC-ID               ::= INTEGER (0..4095)

RPM                 ::= ENUMERATED {
    mode-0,
    mode-1
}

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)

Round-Trip-Time-Value ::= INTEGER(0..8191)
-- According to mapping in 25.215

RSCP-Value ::= INTEGER (0..81)
-- According to mapping in [14]

RSCP-Value-IncrDecrThres ::= INTEGER (0..80)

RSSI                 ::= INTEGER (0..621)

```

```

-- According to mapping in [11]
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- U

UARFCN                ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling
}

UL-SIR                ::= INTEGER (-82..173)
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.

UC-ID ::= SEQUENCE {
    rNC-ID              RNC-ID,
    c-ID                C-ID,
    iE-Extensions      ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    ...
}

UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCCH-SlotFormat   ::= INTEGER (0..5)

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent
}

```

```

}
UL-InterferenceLevel ::= INTEGER (1280.. 600)
-- The UL-InterferenceLevel gives the UL-InterferenceLevel in number
-- of 0.1 dBm steps-
-- E.g. Value 600 means 60 dBm
-- Unit dBm. Step 0.1 dBm-

UL-ScramblingCode ::= SEQUENCE {
    ul-ScramblingCodeNumber      UL-ScramblingCodeNumber,
    ul-ScramblingCodeLength      UL-ScramblingCodeLength,
    iE-Extensions                ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
}

UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}

UL-ScramblingCodeNumber      ::= INTEGER (0..16777215)

UL-TimeslotISCP ::= INTEGER (0..81)
-- According to mapping in [14]

URA-ID                       ::= INTEGER (0..65535)

USCH-ID                       ::= INTEGER (0..255)

-- V
-- W
-- X
-- Y
-- Z

END

```


<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.423	CR	166r1
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: TSG RAN#9 <small>list expected approval meeting # here</small> ↑		Current Version: 3.2.0
for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** 2000-07-06

Subject: Compressed Mode

Work item: _____

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

Reason for change: This CR corrects following errors in IE definitions concerning CM functionality:

1. Following IEs has been deleted since they are either not used anymore or they are introduced in Transmission GAP Pattern Sequence Information IE
 - 9.2.1.10 CFN Offset
 - 9.2.2.4 Compressed Mode Method
 - 9.2.2.12 DL Frame Type
 - 9.2.2.17 Gap Position Mode
 - 9.2.2.18 Gap Period
 - 9.2.2.31 Power Control Mode
 - 9.2.2.31 Power Resume Mode
 - 9.2.2.37 Scrambling Code Change
 - 9.2.2.47 TGD
 - 9.2.2.49 TGL
 - 9.2.2.51 UL/DL Compressed Mode Selection
 - 9.2.2.55 UL Delta SIR
 - 9.2.2.56 UL Delta SIR After
2. Corrections in Transmission GAP Pattern Sequence Information IE
 - Schematic description for DL Frame Type added.
 - Parameters RPM and ITPPRM deleted
 - Schematic description for DeltaSIR1, DeltaSIRafter1, DeltaSIR2, DeltaSIRafter2 corrected

Clauses affected: 9.2.2.10, 9.2.2.4, 9.2.2.12, 9.2.2.17, 9.2.2.18, 9.2.2.31, 9.2.2.37, 9.2.2.47, 9.2.2.47A, 9.2.2.49, 9.2.2.51, 9.2.2.55, 9.2.2.56, 9.3.4

<u>Other specs affected:</u>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

Other comments:

9.2.1.10 CFN Offset

Activation time for the compressed mode pattern.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CFN Offset			INTEGER (0... 255)	Number of frames between CFN and the compressed mode activation.

Void.

9.2.2 FDD Specific Parameters

This subclause contains parameters that are specific to FDD.

9.2.2.A Active Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence activation. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN .
Transmission Gap Pattern Sequence Status		0 to <MaxTGPS>		If the group is not present, none of the pattern sequences are activated.
>TGPSI	M		Integer(1..<MaxTGPS>)	Active Pattern Sequence Identifier. Establish a reference to the compressed mode pattern sequence. Up to <MaxAPS> simultaneous compressed mode pattern sequences can be activated.
>TGPRC	M		Integer (0..63)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence. 0=Infinity.
>TGCFN	M		CFN	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.

Range bound	Explanation
MaxTGPS	Maximum number of active pattern sequences. Value 6.

9.2.2.B Adjustment Period

Adjustment Period IE defines the period to be used for power balancing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Adjustment Period			INTEGER (1 .. 300)	Frames

9.2.2.C Adjustment Ratio

Adjustment Ratio IE (*Radj*) defines the convergence rate used for the associated Adjustment Period.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Adjustment Ratio			INTEGER (0 .. 100)	The Adjustment Ratio is given with a granularity of 0.01 0 -> 0.00 1 -> 0.01 ... 100 -> 1.00

9.2.2.1 Chip Offset

The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip Offset is used as offset for the DL DPCH relative to the Primary CPICH timing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER (0..38399)	Chips

9.2.2.2 Closed Loop Mode1 Support Indicator

The Closed Loop Mode1 Support Indicator indicates whether the particular cell is capable to support Closed loop mode1 or not

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Mode1 Support Indicator			ENUMERATED (Closed loop mode1 Supported, Closed loop mode1 not supported).	

9.2.2.3 Closed Loop Mode2 Support Indicator

The Closed Loop Mode2 Support Indicator indicates whether the particular cell is capable to support Closed loop mode2 or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Mode2 Support Indicator			ENUMERATED (Closed loop mode2 Supported, Closed loop mode2 not supported).	

9.2.2.3A Closed Loop Timing Adjustment Mode

Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Timing Adjustment Mode			ENUMERATED (Offset1, Offset2,...)	According to [10] chapter 7.1: Offset1 = slot(j+1)mod15 Offset2 = slot(j+2)mod15

9.2.2.4 Compressed Mode Method

Defines the method for generating the downlink compressed mode gap, as described in ref. [9].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Method			ENUMERATED (None, Puncturing, SF/2, Higher Layer Scheduling)	None = restore the normal mode

Void.

9.2.2.5 D-Field Length

Defines the D Field size of the UL DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D Field Length			ENUMERATED (1, 2)	

9.2.2.6 Diversity Control Field

Void.

9.2.2.7 Diversity Indication

Void.

9.2.2.8 Diversity Mode

Define the diversity mode to be applied.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Mode			ENUMERATED (None, STTD, Closed loop mode 1, Closed loop mode2)	

9.2.2.9 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH Slot Format			INTEGER (0..16)	

9.2.2.10 DL Power

The DL Power IE indicates the power level of the DPDCH symbols, expressed as a relative value with respect to the CPICH power.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
DL Power			Enumerated(-35..+15dB)	Step 0.1dB

9.2.2.11 DL Scrambling Code

DL Scrambling code to be used by the RL. One cell may have multiple DL Scrambling codes available.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code			INTEGER (0..15)	0= Primary scrambling code of the cell 1...15= Secondary scrambling code

9.2.2.12 Downlink Frame Type

This parameter defines if frame type 'A' or 'B' shall be used in downlink compressed mode. This is defined in [9].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Downlink Frame Type			ENUMERATED (TypeA, TypeB)	

Void.

9.2.2.13 DRAC Control

This IE indicates whether the DCH is control by DRAC or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DRAC Control			Enumerated (Requested, Not-Requested)	Requested means that DCH is controlled by DRAC

9.2.2.14 FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD DL Channelisation Code Number	M		INTEGER(0..255)	The maximum value is equal to the DL spreading factor -1

9.2.2.15 FDD S-CCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD S-CCPCH Offset			INTEGER(0..149)	0: 0 chip 1: 256 chip 2: 512 chip .. 149: 38144 chip ref. [8]

9.2.2.16 FDD TPC Downlink Step Size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink Step Size			ENUMERATED (0.5, 1, 1.5, 2)	

9.2.2.16A First RLS Indicator

The First *RLS Indicator* IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
First RLS Indicator			ENUMERATED (first RLS, not first RLS)	

9.2.2.17 Gap Position Mode

The gap position can be fixed or adjustable, as defined in ref. [9].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Position Mode			ENUMERATED (Fixed, Flexible)	

Void.

9.2.2.18 Gap Period (TGP)

Gap Period is the period of repetition of a set of consecutive frames containing up to 2 transmission gaps.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Period			INTEGER(0..255)	Frames

Void.

9.2.2.19 Gap Starting Slot Number (SN)

It defines the slot number when the transmission gap starts.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SN			Time Slot	

9.2.2.20 IB_SG_POS

First position of an Information Block segment in the SFN cycle ($IB_SG_POS < IB_SG_REP$).

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB_SG_POS			INTEGER (0..2 ¹² -1)	

9.2.2.21 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when $SFN \bmod IB_SG_REP = IB_SG_POS$.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB_SG_REP			ENUMERATED (16, 32, 64, 128, 256, 512, 1024, 2048)	Repetition period for the IB segment in frames

9.2.2.22 Max Adjustment Period

Void.

9.2.2.23 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. *Max Adjustment Step* IE defines a time period, in terms of number of slots, in which the accumulated power adjustments shall be maximum 1 dB. This value does not include the DL inner loop PC adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Adjustment Step			INTEGER (1..10)	Slots

9.2.2.24 Max Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of UL DPDCHs			INTEGER (1..6)	

9.2.2.24A Min DL Channelisation Code Length

Minimum DL channelisation code length (spreading factor) of a supported by the UE on the PDSCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min DL Channelisation Code Length			ENUMERATED (4, 8, 16, 32, 64, 128, 256)	

9.2.2.25 Min UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code Length			ENUMERATED(4,8,16,32,64,128,256)	

9.2.2.26 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiplexing Position			ENUMERATED(Fixed, Flexible)	

9.2.2.26A Number of DL channelisation codes

This parameter notifies DRNS of the number of DL channelisation codes required in Radio Links.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Number of DL channelisation codes			INTEGER(1..8)	

9.2.2.27 Pattern Duration (PD)

Pattern duration is the total time of then compressed mode pattern (all consecutive TGPs) expressed in number of frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(0..2047, ...)	Frames If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite'

9.2.2.27A PDSCH code mapping

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.

Method #1 - Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) values to PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code start' of Group = 1. The PDSCH code used for TFCI(field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its

mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.

Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2).

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code	M		INTEGER (0..15)	Scrambling code on which PDSCH is transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code

<i>Choice signalling method</i>				
<i>>code range</i>				
>>PDSCH code mapping		1 to <MaxNoCodeGroups>		
>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	
>>multi-code info	M		Integer(1..16)	This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code start, Numbering as described in [16]
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code stop, Numbering as described in [16]
<i>>TFCI range</i>				
>>DSCH mapping		1 to <MaxNoTFCIGroups>		
>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [16]
<i>>Explicit</i>				
>>>PDSCH code		1 to MaxTFCI_2_Combs		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [16]

Range Bound	Explanation
MaxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
MaxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

9.2.2.28 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Adjustment Type			ENUMERATED (None, Common, Individual)	

9.2.2.29 Power Control Mode (PCM)

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in ref. [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Control Mode			ENUMERATED (0, 1,...)	

Void.

9.2.2.30 Power Offset

This IE defines a power offset respect the Downlink transmission power of a DPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (0...24)	Unit dB, Step 0.25 dB, range 0-6 dB

9.2.2.31 Power Resume Mode (PRM)

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in ref. [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Resume Mode			ENUMERATED (0, 1,...)	Described in ref. [10].

Void.

9.2.2.31A Preamble Signature

This IE gives the preamble signatures allowed for a PRACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1 .. Bit 15=P15 See ref. [21].

9.2.2.32 Primary CPICH Ec/No

Energy per chip divided by the power density per band measured on the Primary CPICH by the terminal.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH Ec/No			INTEGER (-30...+30)	Unit dB, step 1 dB

9.2.2.33 Propagation Delay (PD)

Propagation delay is the one-way propagation delay of the radio signal from the UE to the Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Propagation Delay			INTEGER (0..255)	Chips. Step size is 3 chips. 0=0 chips, 1=3 chips, ...

9.2.2.33A PRACH Minimum Spreading Factor

This IE gives the lowest allowed spreading factor for a PRACH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PRACH Minimum Spreading Factor			Enumerated (32,64,128,256,...)	Defines the lowest allowed. See ref. [16].

9.2.2.34 QE-Selector

Void.

9.2.2.34A RACH Sub Channel Numbers

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Sub Channel Numbers			BIT STRING (12)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1 .. Bit 11=Sub Channel Number 11

9.2.2.35 RL Set ID

The RL Set ID uniquely identifies one RL Set within a UE Context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RL Set ID			INTEGER (0..31)	

9.2.2.36 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SSDT Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERATED (1, 2)	

9.2.2.37 Scrambling Code Change

~~This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Change			ENUMERATED (Change, No change)	

Void.

9.2.2.37A Scrambling Code Number

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Number			INTEGER (0..15)	Identification of scrambling code see Ref. [21].

9.2.2.38 Secondary CCPCH Slot Format

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER (0..17)	See ref. [8].

9.2.2.39 Slot Number (SN)

It defines the slot number when the transmission gap starts.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SN			Time Slot	

9.2.2.40 SSDT Cell Identity

The SSDT Cell Identity is a temporary ID for SSDT assigned to a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSDT Cell Identity			ENUMERATED (a, b.., h)	

9.2.2.41 SSdT Cell Identity Length

The SSdT Cell Identity Length parameter shows the length of the SSdT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSdT Cell Identity Length			ENUMERATED(Short, Medium, Long)	

9.2.2.42 SSdT Indication

The SSdT Indication indicates whether SSdT is in use by the UE or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSdT Indication			ENUMERATED(SSdT Active in the UE, SSdT not Active in the UE)	

9.2.2.43 SSdT Support Indicator

The SSdT Support Indicator indicates whether a RL supports SSdT or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SSdT Support Indicator			ENUMERATED(SSdT Supported, SSdT not supported).	

9.2.2.44 STTD Indicator

Indicates if STTD is active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Indicator			ENUMERATED(active, inactive)	

9.2.2.45 STTD Support Indicator

The STTD Support Indicator indicates whether the STTD can be applied to DL DPCH in the cell or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Support Indicator			ENUMERATED(STTD Supported, STTD not Supported).	

9.2.2.46 TFCI Signalling Mode

This parameter indicates if the normal or split mode is used for the TFCI.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI Signalling Mode			ENUMERATED (Normal, Split)	

9.2.2.47 Transmission Gap Distance (TGD)

~~Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of slots. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGD			INTEGER(0..3839)	Slots

Void.

9.2.2.47A Transmission Gap Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmission gap pattern sequence Information		1 to <MaxTGPS>		
>TGPSI	M		Integer(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		Integer (0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		Integer (1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	O		Integer (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		Integer (0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		Integer (1..144)	The duration of transmission gap pattern 1.
>TGPL2	O		Integer (1..144)	The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.
>RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied.
>ITPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
>UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink compressed mode method	C-DL		Enumerated (puncturing, SF/2, higher layer scheduling)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped.
>Uplink compressed mode method	C-UL		Enumerated (SF/2, higher layer scheduling)	Method for generating uplink compressed mode gap.
>Downlink frame type	M		Enumerated (A, B)	Defines if frame type 'A' or 'B' shall be used in downlink compressed mode.

DeltaSIR1	M		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>DRNSUE</u> during the compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Step 0.1
DeltaSIRafter1	M		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>DRNSUE</u> one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern. Step 0.1
DeltaSIR2	O		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>DRNSUE</u> during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1. Step 0.1
DeltaSIRafter2	O		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>DRNSUE</u> one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1. Step 0.1

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

9.2.2.47B Transmission Gap Pattern Sequence Information Response

This IE indicates whether the alternative scrambling code can be used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [16].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling code change			Enumerated (code change, no code change)	Indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

9.2.2.48 Transmit Diversity Indicator

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmit Diversity Indicator			ENUMERATED (active, inactive)	

9.2.2.49 Transmit Gap Length (TGL)

Transmission Gap Length is the duration of no transmission, expressed in number of slots.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			ENUMERATED (3,4,7,10,14)	Slot

Void.

9.2.2.50 Tx Diversity Indicator

The Tx Diversity Indicator indicates if the following conditions are satisfied:

- P-CPICH is broadcast from two antennas
- STTD is applied to P-CCPCH
- TSTD is applied to P-SCH and S-SCH

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Tx Diversity Indicator			ENUMERATED (true, false).	

9.2.2.51 UL/DL Compressed Mode Selection

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL/DL Compressed Mode Selection			ENUMERATED (UL only, DL only, both UL and DL)	

Void.

9.2.2.52 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, according to ref. [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH Slot Format			INTEGER (0..5)	

9.2.2.53 UL Scrambling Code

The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

The Transmit Diversity Indicator indicates whether Transmit Diversity shall be active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL scrambling code				
>UL Scrambling Code Number	M		INTEGER (0.. $2^{24}-1$)	
>UL Scrambling Code Length	M		ENUMERATED (Short, Long)	

9.2.2.54 Uplink Delta SIR

~~The delta in uplink SIR that shall be added to the SIR target used during compressed mode frames.~~

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR			Enumerated (-6..+10dB)	Step 0.1 dB.

Void.

9.2.2.55 Uplink Delta SIR After

~~The delta in uplink SIR target that shall be added to the SIR target used one frame after the compressed mode frames.~~

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR After			Enumerated (-6..+10dB)	Step 0.1 dB.

Void.

9.3.4 Information Element Definitions

```
-- *****
--
-- Information Element Definitions
--
-- *****
```

... Text omitted ...

```
ITPPRM ::= ENUMERATED {
  mode-0,
  mode-1
}
```

... Text omitted ...

```
RPM ::= ENUMERATED {
  mode-0,
  mode-1
}
```

... Text omitted ...

```
Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
  SEQUENCE {
    tGPSI          TGPSI,
    tGSN           TGSN,
    tGL1           GapLength,
    tGL2           GapLength OPTIONAL,
    tGD            TGD,
    tGPL1          GapDuration,
    tGPL2          GapDuration OPTIONAL,
    rPM          RPM,
    iTPPRM       ITPPRM,
    uL-DL-mode     UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method   Uplink-Compressed-Mode-Method   OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "UL only" or "UL/DL"
    dL-FrameType   DL-FrameType,
```

```
delta-SIR1      DeltaSIR,
delta-SIR-after1  DeltaSIR,
delta-SIR2      DeltaSIR  OPTIONAL,
delta-SIR-after2  DeltaSIR  OPTIONAL,
iE-Extensions   ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
...
}

Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
...
}
```

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.423

CR 167

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#9**

list expected approval meeting # here ↑

for approval
for information

Strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** July 2000

Subject: Object Identifier value for RNSAP

Work item:

Category: F Correction **Release:** Phase 2
(only one category shall be marked with an X) A Corresponds to a correction in an earlier release Release 96
B Addition of feature Release 97
C Functional modification of feature Release 98
D Editorial modification Release 99
Release 00

Reason for change: The value of Object Identifier for ASN.1 of the RNSAP has been decided by 3GPP. In the current RNSAP, the values of Object Identifier are not shown. This CR provides this change for RNSAP-PDU-Descriptions module, RNSAP-PDU-Contents module, RNSAP-IEs module, RNSAP-CommonDataTypes module, RNSAP-Constants module and RNSAP-Containers module.
If this change is not accepted, each module in ASN.1 of RNSAP will not be recognized.

Clauses affected: 9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, 9.3.7

Other specs affected: Other 3G core specifications → List of CRs: R3-001915, R3-001917, R3-001918
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.3.2 Elementary Procedure Definitions

```
-- *****  
--  
-- Elementary Procedure definitions  
--  
-- *****
```

```
RNSAP-PDU-Descriptions -- { object identifier to be allocated }--  
RNSAP-PDU-Descriptions {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Descriptions (0) }
```

```
DEFINITIONS AUTOMATIC TAGS ::=
```

```
BEGIN
```

Partly omitted

9.3.3 PDU Definitions

```
-- *****  
--  
-- PDU definitions for RNSAP.  
--  
-- *****
```

```
RNSAP-PDU-Contents -- { object identifier to be allocated }--  
RNSAP-PDU-Contents {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) }
```

```
DEFINITIONS AUTOMATIC TAGS ::=
```

```
BEGIN
```

Partly omitted

9.3.4 Information Element Definitions

```
-- *****  
--  
-- Information Element Definitions  
--  
-- *****
```

```
RNSAP-IEs -- { object identifier to be allocated }--  
RNSAP-IEs {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }
```

```
DEFINITIONS AUTOMATIC TAGS ::=
```

```
BEGIN
```

Partly omitted

9.3.5 Common Definitions

```
-- *****  
--  
-- Common definitions  
--  
-- *****
```

```
RNSAP-CommonDataTypes { object identifier to be allocated }  
RNSAP-CommonDataTypes {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-CommonDataTypes (3) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted

9.3.6 Constant Definitions

```
-- *****  
--  
-- Constant definitions  
--  
-- *****
```

```
RNSAP-Constants { object identifier to be allocated }  
RNSAP-Constants {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted

9.3.7 Container Definitions

```
-- *****  
--  
-- Container definitions  
--  
-- *****
```

```
RNSAP-Containers { object identifier to be allocated }  
RNSAP-Containers {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Containers (5) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted